



**Calhoun: The NPS Institutional Archive** 

**DSpace Repository** 

Theses and Dissertations

1. Thesis and Dissertation Collection, all items

1983

A review of Shipboard Uniform Automated Data Processing System (SUADPS) as a financial information and control system for OPTAR funds.

Worley, Randy A.

Monterey, California. Naval Postgraduate School

http://hdl.handle.net/10945/19969

Downloaded from NPS Archive: Calhoun



Calhoun is the Naval Postgraduate School's public access digital repository for research materials and institutional publications created by the NPS community. Calhoun is named for Professor of Mathematics Guy K. Calhoun, NPS's first appointed -- and published -- scholarly author.

> Dudley Knox Library / Naval Postgraduate School 411 Dyer Road / 1 University Circle Monterey, California USA 93943

http://www.nps.edu/library



Dudley Knox Library, NPS Monterey, CA 93943





# NAVAL POSTGRADUATE SCHOOL

Monterey, California



# THESIS

A REVIEW OF SHIPBOARD UNIFORM AUTOMATED DATA PROCESSING SYSTEM (SUADPS) AS A FINANCIAL INFORMATION AND CONTROL SYSTEM FOR OPTAR FUNDS

bу

Randy A. Worley

June 1983

Thesis Advisors:

P. Blondin

S. Liao

Approved for public release; distribution unlimited.

T210154



SECURITY CLASSIFICATION OF THIS PAGE (When Data En	itered)					
REPORT DOCUMENTATION P	READ INSTRUCTIONS BEFORE COMPLETING FORM					
1. REPORT NUMBER 2.	3. RECIPIENT'S CATALOG NUMBER					
A Review of Shipboard Uniformated Data Processing S	5. TYPE OF REPORT & PERIOD COVERED Master's Thesis; June 1983					
(SUADPS) as a Financial In: and Control System for OPTA		6. PERFORMING ORG. REPORT NUMBER				
Randy A. Worley		8. CONTRACT OR GRANT NUMBER(*)				
Naval postgraduate School Monterey, California 9394	0	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS				
11. CONTROLLING OFFICE NAME AND ADDRESS Naval Postgraduate School		12. REPORT DATE June 1983				
Monterey, California 9394	13. NUMBER OF PAGES 191					
14. MONITORING AGENCY NAME & ADDRESS(If different f	rom Controlling Office)	15. SECURITY CLASS. (of this report)				
		Unclassified				
		15. DECLASSIFICATION/DOWNGRADING SCHEDULE				

16. DISTRIBUTION STATEMENT (of this Report)

Approved for public release; distribution unlimited.

- 17. DISTRIBUTION STATEMENT (of the obeiract entered in Block 20, if different from Report)
- 18. SUPPLEMENTARY NOTES
- 19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

SUADPS Shipboard Financial Management Automated Financial Management

20. ABSTRACT (Continue on reveree elde if necessary and identify by block number)

Responding to the call for better resource management, improvements in financial procedures and practices, and the reduction of waste within the Defense Department, this thesis presents a review of the Navy's major afloat supply and accounting system. A review of this Shipboard Uniform Automated Data Processing System (SUADPS) was conducted to determine if

#20 - ABSTRACT - (CONTINUED)

the system met the objectives of an efficient and effective financial information and control system.

A survey of the managers and users of the SUADPS system in relation to financial management aboard several Submarine Tenders was carried out to uncover deficiencies in implementation and recommendations for their improvement or resolution. The thesis findings also provide SUADPS designers and command level management with the user perspectives of SUADPS resource management operations and problems.



Approved for public release; distribution unlimited.

A Review of Shipboard Uniform Automated Data Processing System (SUADPS) as a Financial Information and Control System for OPTAR Funds

by

Randy A. Worley
Lieutenant Commander, Supply Corps, United States Navy
B.S., Oregon State University, 1973

Submitted in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE IN MANAGEMENT

from the

NAVAL POSTGRADUATE SCHOOL

June 1983

w 87533

#### ABSTRACT

Responding to the call for better resource management, improvements in financial procedures and practices, and the reduction of waste within the Defense Department, this thesis presents a review of the Navy's major afloat supply and accounting system. A review of this Shipboard Uniform Automated Data Processing System (SUADPS) was conducted to determine if the system met the objectives of an efficient and effective financial information and control system.

A survey of the managers and users of the SUADPS system in relation to financial management aboard several Submarine Tenders was carried out to uncover deficiencies in implementation and recommendations for their improvement or resolution. The thesis findings also provide SUADPS designers and command level management with the user perspectives of SUADPS resource management operations and problems.



### TABLE OF CONTENTS

I.	INT	RODUCTION	9.
	Α.	GENERAL	9
	В.	BACKGROUND	11
	C.	OBJECTIVE AND SCOPE OF STUDY	12
	D.	RESEARCH METHODOLOGY	16
	E.	THESIS ORGANIZATION	17
II.	AN	OVERVIEW OF SUADPS	18
	Α.	GENERAL CONCEPT AND HISTORICAL DEVELOPMENT	18
	В.	SUADPS FUNCTIONS AND FILES	21
	C.	SUADPS SYSTEM PROCESSING	24
	D.	SUADPS HARDWARE AND OTHER APPLICATIONS	27
	E.	SUADPS FUTURE PLANS	28
	F.	SUMMARY	42
III.		MARINE SQUADRON/TENDER ORGANIZATION AND ANCIAL OPERATIONS	45
	Α.	FINANCIAL RESOURCES AVAILABLE TO A SUBMARINE SQUADRON/TENDER	45
	В.	SUBMARINE SQUADRON/TENDER ORGANIZATION AND ASSOCIATED FUNDS FLOW	47
	C.	ROLE OF THE FLEET ACCOUNTING AND DISBURSING CENTER	50
	D.	SUMMARY	52
IV.		OUNTING, CONTROLLING, AND REPORTING CTICES UNDER SUADPS	54
	Α.	GETTING A TRANSACTION INTO SUADPS FINANCIAL FILES	54
	В.	FINANCIAL REPORTS AVAILABLE IN SUADPS	63



	C.	INTERNAL MANAGEMENT FINANCIAL REPORTS IN SUADPS	70
	D.	SUMMARY	76
٧.	AN A	ASSESSMENT OF SUADPS FINANCIAL OPERATIONS	82
	Α.	ACCURACY AND TIMELINESS	83
	В.	RECONCILIATION	88
	C.	FINANCIAL INFORMATION USEFULNESS	95
	D.	MOTIVATION AND BEHAVIOR	101
	E.	OTHER SIGNIFICANT SHORTCOMINGS	104
	F.	SUMMARY	109
VI.	CONC	CLUSIONS AND RECOMMENDATIONS	110
	Α.	SUMMARY OF FINDINGS	110
	В.	CONCLUSIONS	111
	C.	RECOMMENDATIONS	115
	D.	FOLLOW-ON THESIS TOPICS	120
APPENI	DIX A	A: KEY SUADPS MISSION SUPPORT AND FUNCTIONAL CAPABILITIES	121
APPENI	DIX E	3: SUADPS TAPE FILES	124
APPENI	DIX C	SUADPS DETAILED UPDATE FLOW CHART	125
APPENI	DIX D	SUADPS REAL TIME SPECIFIC OBJECTIVES	133
APPENI	DIX E	E: SUMMARY LISTING OF SUADPS ERRORS	139
APPENI	DIX F	: SUADPS DETAILED MONTHLY OUTPUT REPORTS	146
APPENI	DIX G	G: USS DIXON'S FINANCIAL ACCOUNTING AND RECONCILIATION GUIDE	148
LIST (	OF RE	EFERENCES	189
TNTTT	דת דמ	CADIBILATON 1.124	191



## LIST OF EXHIBITS

TD - 1-	٠	3.			- 0
Exh	3	n	7	7	#

1.	The Defense Budget in the Proper Perspective	10
2.	SUADPS Sites and Their Missions	14
3.	SUADPS File Sizes and Their Transaction Volumes	15
4.	SUADPS Operational Units	22
5.	SUADPS Update Overview	26
6.	SNAP I "A" Configuration ADPE	34
7.	Summary of SNAP I Hardware Acquisition	35
8.	SUADPS-RT Organizational/Transaction Interfaces	36
9.	SUADPS-RT System Overview	37
10.	SUADPS-RT System Overview	38
11.	SUADPS-RT Business Functions	40
12.	SUADPS-RT Financial Functions	41
13.	SNAP I Overall Milestones	43
14.	SNAP II Overall Milestones	44
15.	Fiscal Year 1981 Funding Categories and OPTAR Levels	49
16.	Accounting System Overview	53
17.	Request for Issue Functional Flow	56
18.	Receipt Processing Functional Flow	58
19.	Transaction Error Listing	60
20.	Suspended Transaction Listing	61
21.	Information Transaction Listing	62
22.	Daily or Weekly Financial Reports	66



#### Exhibit #

23.	Monthly or Yearly Financial Reports	68
24.	Availability Cost Report for Supported Units	71
25.	Availability Cost Report for Non-Supported Units	72
26.	Divisional Budget Report 21	74
27.	Departmental Budget Report 21	75
28.	Commanding Officer Budget Report 21	77
29.	Supported Unit Budget Report 21	80
30.	Requisition OPTAR Log	91
31.	Unmatched Reconciliation Problems	93
32.	Commanding Officer Financial Control Report	98
3 3	Squadron Commander Financial Report	99



#### I. INTRODUCTION

#### A. GENERAL

In support of his election mandate, President Reagan has embarked on a campaign during his administration to build up the Defense Department. The President's support for a strong defense is a favorite topic of the media and has already been clearly reflected in Fiscal Year (FY) 1981 and FY 1982 Defense Budget revisions of \$6.8 and \$25.8 Billion, respectively. His continued strong support of the Defense Department's revitalization is projected through FY 1987 as shown in Exhibit 1. This type of Presidential support for the military cause carries with it heavy responsibilities. the words of the Deputy Secretary of Defense, Frank Carlucci, "With this call for increased Defense spending has come a new emphasis on the need for Defense managers to do a better job with the resources entrusted to them. This requires a new commitment to eliminate waste, wherever it is found, and to do our utmost to prevent fraud and abuse" [Ref. 1: p. 4].

This call for better resource management, improvements in financial procedures and practices, and reduction of governmental waste is an appeal for effective financial information and control systems within the Defense Department.

One such system in operation within the Naval fleet is the Shipboard Uniform Automated Data Processing System (SUADPS).



EXHIBIT 1

The Defense Budget in the Proper Perspective

The 5-Year Defense Plan									
	1982	1983	1984	1985	1986	1987			
TOA	(				4	, ,			
Current Dollars	214.2	258.0	285.5	331.7	367.6	400.8			
FY 1983 Dollars	227.8	258.0	269.8	297.8	314.0	325.9			
Outlays						a , 2-			
Current Dollars	182.8	215.9	247.0	285.5	324.0	356.0			
FY 1983 Dollars	195.4	215.9	233.2	255.6	276.0	288.7			
Defense Budget as a Percent of GNP	5.9	6.3	6.5	6.9	7.2	7.4			



This thesis evaluates the financial information and control aspects of the SUADPS system.

#### B. BACKGROUND

Over the years the SUADPS system has undergone numerous modifications to bring it to its current state. The requirements and environment of the SUADPS system today are of a higher order of complexity than those at its inception.

Instead of a simplified clerical support system, the SUADPS system today operates as a comprehensive and integrated management information and control system. Currently, the SUADPS system is in extensive service within the Navy's fleet.

SUADPS currently operates on an "ancient" computer system (due to the rapid technological advances in the field of Computer System Applications); operates differently than its original design envisioned and within an extremely complex environment. For these above reasons and in response to the Commander in Chief's call for improvements in resource management, updating of the SUADPS system is urgently needed.

SUADPS does, as a portion of the name (Uniform) implies, standardize the supply and financial functions aboard Naval afloat units. Not only is the SUADPS system extensively in use aboard all the major fleet units, it is also currently projected to be implemented by numerous additional Naval units in a program designated as Shipboard Non-Tactical



Automated Data Processing System (SNAP II) by FY 1986. This prospect even further reinforces the need for the study of the SUADPS system. The SNAP program will be discussed in detail later in this thesis.

#### C. OBJECTIVE AND SCOPE OF STUDY

The objective of this thesis is to review and assess the utilization of a major Naval afloat accounting system designated as SUADPS. SUADPS is a highly complex and integrated supply and financial system. As such, an analysis of the entire system (supply and financial) is too encompassing for a complete analysis in this thesis. Accordingly, this thesis is confined to a review of the portion of SUADPS concerned with the financial information and control aspects and not those of inventory control and resupply.

A review of the accounting aspects of the Automated Data Processing System (SUADPS) will be conducted from the perspective of the user in an effort to determine if the system achieves the goals of an effective financial control system.

The effectiveness with which an accounting system satisfies both its own immediate objectives as well as an organization's wider purposes depends on both the relevance and the accuracy of the information which it provides and the way in which the information is used by the members of the organization. [Ref. 2, p. 115]

Accuracy in this sense must also include not only validity but timeliness as well. If SUADPS as a financial information and control system does not achieve these goals,



deficiencies will be identified, complete with recommendations for their improvement.

SUADPS is operational in a highly varied environment of types and classes of ships as its design justifiably calls for. In the interest of obtaining specific and insightful information for analysis, concentration on Submarine Tender Financial Information and Control Systems was conducted. Submarine Tenders were selected for a SUADPS financial review for several important reasons. First, submarines are extremely vital to the United States National Defense. Secondly, both classes of Submarine Tenders (AS, AS(FBM)) possess a more complex dual mission of Supply and Repair which influences their SUADPS operations to a certain extent. (See Exhibit 2 for specific ship classes' missions and support responsibilities.) Thirdly, Submarine Tenders have a relatively greater SUADPS transactional workload in comparison to other SUADPS ships. (See Exhibit 3 reprinted from Ref. 7, p. 2-13.)

Although Submarine Tender financial resources are obtained from a variety of different fund classifications, the SUADPS system is responsible for only two of these:

Navy Stock Fund and Operations and Maintenance Appropriation OPTAR. This thesis is not concerned with the resupply and inventory control aspects of SUADPS which are highly correlated with the Naval Stock Fund. The emphasis of this study is from the viewpoint of the operational afloat end user and



EXHIBIT 2

SUADPS SITES AND THEIR MISSIONS

Primary Ship Support	Surface	Surface	Surface	Submarine	Submarine	Aircraft	Aircraft	Aircraft	Aircraft	ı
Repair Mission	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No
Supply Mission	No	No	Yes	Yes	Yes	Yes	No	No	No	No
Quantity	10	7	7	9	2	14	2	5	17	22
Class	Destroyer Tender	Repair Ship	Combat Stores Ship	Fleet Ballistic Missile Submarine Tender	Attack Submarine Tender	Aircraft Carrier	Amphibious Assault Ship	Amphibious Assault Ship	Marine Air Groups	Headquarters, Training and Support Facilities
	AD	AR	AFS	AS(FBM)	AS	CV	LPH	LHA	MAG	MISC

66

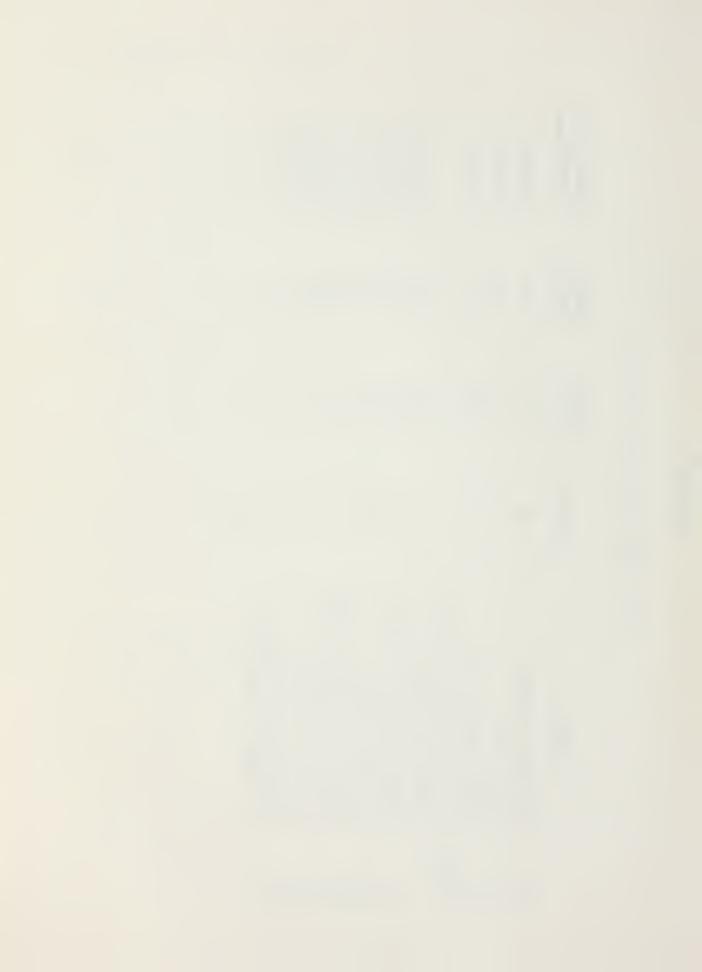
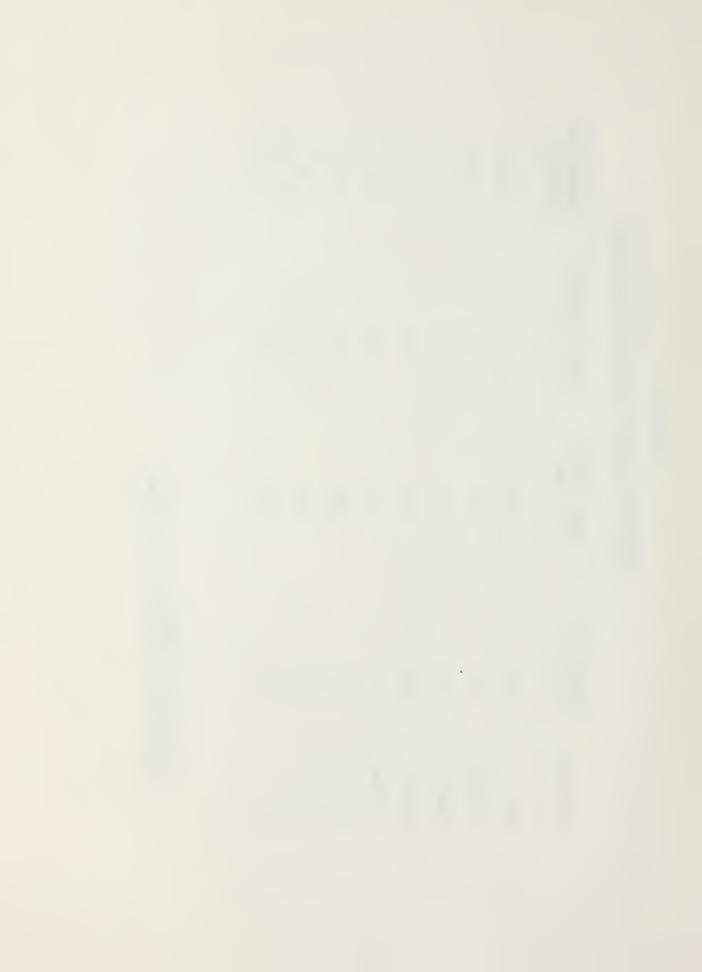


EXHIBIT 3

SUADPS FILE SIZES AND TRANSACTION VOLUMES

TRANSACTION VOLUME**	127	18	79	19	124	75	36	23
CROSS REFERENCE FILE SIZE	67	35	5.0	18	40	26	31	22
STOCK RECORD FILE SIZE*	120	43	55	35	91	7.0	57	48
REQUISITION FILE SIZE*	97	13	22	30	75	42	23	18
SHIP TYPE	CV	ГРН/ГНА	MAG	AFS	AS(FBM)	AS	AD	AR

\*\*THOUSANDS OF TRANSACTIONS PER MONTH



therefore the SUADPS review is concentrated on the financial management of OPTAR funds only.

### D. RESEARCH METHODOLOGY

The methods used to research and develop this thesis were threefold. Literature reviews of operational procedures, instructions, reference publications, training manuals, and Naval Audit Service audits were extremely helpful in the progress of this thesis.

Onsite operational observations and data collection of financial accounting and reporting management information were administered aboard the Submarine Tenders USS DIXON and the USS SPERRY.

Additionally, interviews of the SUADPS personnel through both personal contact and telephone liaison were instrumental in this thesis study. In excess of twenty-five onsite personal interviews were conducted aboard the Submarine Tenders USS DIXON (San Diego, CA) and USS SPERRY (San Diego, CA). These personal interviews were informal, candid, openended discussions with officer and enlisted personnel in SUADPS-related assignments. Similar interviews were also conducted via telephone with personnel of the USS PROTEUS (Guam, M.I.) and several other supply personnel possessing previous SUADPS experience. Further telephone interviews were conducted with representatives of the following commands:

Naval Supply Corps School (NSCS), Athens, Georgia;



Naval Material SNAP II Program Office (NAVMAT), Washington, D.C.

### E. THESIS ORGANIZATION

This thesis study is divided into six chapters and seven appendices for an integrated and comprehensive review of SUADPS operations.

The next chapter contains a general overview of SUADPS history, structure, operations and future changes. Chapter III will review the specific Submarine Squadron/Tender organizational relationships associated with the operational SUADPS environment. Chapter IV will deal with the detailed accounting, reporting, and controlling practices in usage by SUADPS system operators and customers. Chapter V will present an assessment of the SUADPS financial information and control system in its implementation as compared to its design theory. Shortcomings and deficiencies uncovered will be discussed in depth. Chapter VI will conclude the thesis with a summary of significant findings with conclusions and recommendations for improvement.



## II. AN OVERVIEW OF SUADPS

This chapter provides the reader with basic knowledge of the functions of the Shipboard Uniform Automated Data Processing System (SUADPS), its structure and operations. Further, it provides background information on its current computer support and some information on future changes which are anticipated to impact SUADPS in the near term future.

### A. GENERAL CONCEPT AND HISTORICAL DEVELOPMENT

The Shipboard Uniform Automated Data Processing System (SUADPS) was designed to improve afloat supply management by utilizing automated data processing equipment. Under the SUADPS concept, all inventory control and financial records are managed on magnetic tape or drum files. [Ref. 3, p. 1-3]

Currently drum files are only available to aircraft carriers and fleet ballistic missile submarine tenders. SUADPS applications on all other ship types rely exclusively on tape file processing.

SUADPS is a batch processing, magnetic tape oriented supply and accounting software system, primarily programmed in assembly language (some COBOL programming capabilities are optional) for the AN/UYK-5(V) hardware computer system.

A concise synopsis of SUADPS describes the system as follows:

The management requirements for the SUADPS Supply and Accounting System were developed by NAVSUP in cooperation with appropriate fleet commands, type commands, and the comptroller of the Navy. The



data processing system was designed by Navy Maintenance and Supply Systems Office (NAVMASSO). The system was designed to satisfy afloat supply and accounting requirements through maximum automation of routine functions and at the same time provide a wide range of options which could be exercised at the shipboard level. All major files are maintained on magnetic tape thus greatly reducing manual Input is introduced to the system via the media of punched cards or magnetic tape. The computer system updates the appropriate magnetic tape files through a series of computer runs to reflect quantitative and monetary changes occasioned by the transactions processed. The system also produces output reflecting current financial and inventory balances, updated historical data, and exception data requiring management attention. [Ref. 4, p. 3-1]

Until the early 1960's, the afloat supply department support responsibilities were documented through extensive manual records. In early 1962, early automation of some supply and financial functions were accomplished through Electrical Accounting Machines. In 1964, further refinements contributed to the availability of an afloat computer system known as the AN/UYK-5(V)(U-1500). In late 1966 this second generation U-1500 computer system incorporated the supply/ financial functions into a software system designated as the Uniform Tender System. With this accomplishment, the afloat operational units took advantage of the new technology through the automation of the clerical routine and repetitive processes. This data processing application was implemented afloat on all the Navy's major vessels operating in a mobile logistics support role.

Evolving and incremental improvements in software design and programming improvements led to the 1969 new software



designated Shipboard Uniform Automated Data Processing

System (SUADPS). The newly developed SUADPS system provided

even greater utilization of existing technology for faster

processing and capabilities to deal with a significant volume

of input data. Automated accounting policies and procedures

are specified by the Navy Comptroller Manual [Ref. 5] and

the Financial Management of Resources [Ref. 6].

The overall goal of the SUADPS system at its inception was to improve the United States Navy afloat supply management through computerizing their supply and accounting functions utilizing the then new automated data processing technology. This improvement was to be accomplished by the substitution of computer processing for manual record keeping procedures. This automation of routine and repetitive tasks essentially computerized the basic clerical systems and thereby provided the ability to enjoy the benefits of faster processing and the handling of greater volumes of input data.

Two versions of SUADPS software were specified for separate classes of ships. Currently SUADPS-EU (End Use) is operational aboard all aircraft carriers (CV), amphibious assault ships (LHA/LPH), and Marine Aircraft Groups (MAG). This end use system (SUADPS-EU) was oriented toward aviation activities with end use (Appropriation Financed vice Navy Stock Fund) funded inventories. SUADPS-207 (Stock Fund Accounting Class 207) is operational aboard all tenders (AD/AS), repair ships (AR), combat stores ships (AFS) and certain shore intermediate



maintenance activities (SIMA). This 207 system (SUADPS-207) was oriented toward maintenance activities and fleet repair and resupply activities with Navy Stock funded inventories. Exhibit 4 provides an actual listing of SUADPS operational units by name as of the date of this thesis. The dual SUADPS-207 and SUADPS-EU systems are currently being somewhat combined since aviation inventories (the driving force behind SUADPS-EU) are currently being converted to Navy Stock Fund Accounting Class 207 funding. SUADPS-EU will be redesignated SUADPS-Aviation 207.

#### B. SUADPS FUNCTIONS AND FILES

As indicated above, SUADPS was designed to significantly improve afloat supply management through the capabilities of automation. Under the initial SUADPS effort, routine and repetitive functions, particularly those with voluminous input, were programmed for data processing. Thus SUADPS has provided computerized assistance to shipboard clerical functions and allowed shipboard supply departments to become relatively more efficient.

The key mission support and functional capabilities provided by SUADPS are as follows:

- Procuring/requisitioning--the documentation of requisitions for material and services to the applicable supplier with the recording of the transaction to maintain financial accountability and inventory reliability.
- Receiving--identification and receipt processing of material for stock and user requirements complete with historical documentation and reconciliation procedures.



### EXHIBIT 4

## SUADPS Operational Units

#### EAST COAST AND LANTFLT AN/UYK-5(V) SYSTEMS

Activity or Ship	Activity or Ship
	155 CAR. 12 SJN (CV 70)
COMINEWARCOM	USS FULTON (AS 11)
DPSCLANT	USS HOWARD G. GILMORE (AS 16)
MAYPORT (FMAC'	USS ORION (AS 18)
NLON - SUBASE	USS HUNLEY (AS 31)
FACLANT	USS HOLLANO (AS 32)
NAVPMACLANT	USS SIMON LAKE (AS 33)
NAVSECNORDIV	USS CANOPUS (AS 34)
NSCSCOL, Athens	USS L.Y.SPEAR (AS 36)
NAVSTA, GTMO	USS EMORY S. LAND (AS-39)
Raytheon Services Corp.	USS FORRESTAL (CV 59)
USS PIEDMONT (AD 17)	USS SARATOCA (CV 60)
USS SIERRA (AD 18)	USS INCEPENDENCE (CV 62)
USS YOSEMITE (AO 19)	USS AMERICA (CV 66)
USS SHENANDOAH (AD 26)	USS JOHN F. KENNEDY (CV 67)
USS PUGET SOUND (AD 38)	USS NIMITZ (CVN 68)
USS SYLVANIA (AFS 2)	USS DWIGHT O. EISENHOWER (CVN 69
USS CONCORD (AFS 5)	USS IWO JIMA (LPH 2)
USS SAN DIEGO (AFS 6)	USS GUADALCANAL (LPH 7)
USS VULCAN (AR 5)	USS GUAM (LPH 9)
USS GRANO CANYON (AR 28)	USS INCHON (LPH 12)
USS YELLOWSTONE (AD-41)	USS FRANK CABLE (AS-40)
	T AN/UYK-5(V) SYSTEMS
Activity or Ship	Activity or Ship
DPSCPAC, ALAMEDA	
COMSUBPAC	USS HECTOR (AR 7)
DPSCPAC, San Diego	USS JASON (AR 8)
COMBATSYSTECHSCOLSCOM,	USS SPERRY (AS 12)
	USS PROTEUS (AS 19)
Vallejo	USS DIXON (AS 37)
NTC, San Diego	033 DIXON (X3 37)
NOAA, Seattle	HEE MIDHAY (CV /1)
USS DIXIE (AD 14)	USS MIDWAY (CV 41)
USS PRAIE (AD 15)	USS CORAL SEA (CV 43)
USS BRYCE CANYON (AD 36)	USS RANGER (CV 61)
USS SAMUEL GOMPERS (AD 37)	USS KITTY HAWK (CV 63)
USS MARS (AFS 1)	USS CONSTELLATION (CV 64)
USS NIAGARA FALLS (AFS 3)	USS ENTERPRISE (CVN 65)
uss white plains (afs 4) (yoko)	USS OKINAWA (LPH 3)
USS SAN JOSE (AFS 7)	USS TRIPOLI (LPH 10)
USS AJAX (AR 6)	USS NEW ORLEANS (LPH 11)
MARINE AIRCRAFT WIN	G AN/UYK-5(V) SYSTEMS
Activity	Activity
	<del></del>
DMAG-6 PENDELTON	MAG-26 NEW RIVER
FOURTHYAU NEW ORLEANS	MAG-29 NEW RIVER
MAG-11 EL TOZO	MAG-31 BEAUFORT
MAG-12 WARENI	MAG-32 CHERRY PT.
MAG-13 EL TORE	MAC-36 FUTEMA, ORINAWA
MAG-14 CHERRY PT.	VMGR-252 (musg - 27) CHERRY PT.
	MWSG-37 EL TURO
MAG-15 JUREUNI MAG-16 SANTA RONA	HWHS-1 IWAKUNI
	TIMES I INCIDENT
MAG-24 KANEONE	

<sup>\*</sup>Four systems at this facility; initial in dates: 5/66, 5/67, 9/67 and 10/68.
\*\*Shipboard installation pending; system being refurbished by NAVSECNORDIV.
\*\*\*Two systems at these facilities.



- Storing--inventory location control of stocked material in support of future user requirements for main-tenance and repair.
- Issuing--validating customer requirements, verifying availabilities, dispensing, and expending material for end-user requirements.
- Shipping/transferring/selling--transfer and invoice documentation and processing of material movements.
- Financial management/accounting--recording, monitoring, and controlling fund obligations and expenditures; processing and reporting of financial transactions in support of fiscal requirements and in management assistance of effective resource utilization.
  - Inventory management--maintaining inventory records and files, managing stock levels, evaluating inventory stock statuses, and collection and reporting of stock inventory transactions for general inventory control processes.

SUADPS in general is a system which was designed to assist operational fleet units in fulfilling their responsibilities with respect to logistics, inventory and financial management. A detailed listing of SUADPS key mission support and functional capabilities is provided as Appendix A [Ref. 7, p. 2-3 through 5].

The structure employed by SUADPS for execution of its afloat supply and accounting responsibilities has evolved into maintenance of data in four major and sixteen minor tape files. Appendix B provides a listing of all twenty files. The four major SUADPS tape files are the Master Record File (MRF), the Requisition Record File (RQN), the Numbers File (NBR), and the Financial Master File (FMF). A brief description of each is as follows.

The Master Record File (MRF) is the basic inventory file.

The MRF contains a variable length record for each item



stocked or requisitioned onboard ship. Each record contains identification and quantitative data required for the inventory management of the item [Ref. 3, p. 2-5].

The Requisition Record File (RQN) serves a dual purpose. It is an active history file of all outstanding and completed requisitions not yet transferred to the Requisition History File (a minor file) and a collection file for Maintenance Data Systems (MDS) related transactions (both supply and maintenance) [Ref. 3, p. 2-13].

The Numbers File (NBR) contains a record of stock number changes and cross reference data [Ref. 4, p. 3-11].

The Financial Master File (FMF) consists of a series of data tables and counters containing monetary amounts (running totals) and other accounting information required to be maintained by the ship [Ref. 4, p. 3-12].

### C. SUADPS SYSTEM PROCESSING

SUADPS operates as a sequential batch processing automated system. All SUADPS files are kept current through the application of card and tape input transactions into an update process. Input data are collected and applied to the applicable system files through a periodic update process. The frequency of updates will be at the discretion of the Supply Officer; however, in order to maintain current records, a minimum of five updates per week is recommended [Ref. 3, p. 2-41].

Under the modular concept, each definable requirement is programmed in a self-contained software component or module.



All modules are united and governed by an executive component known as SUADPS [Ref. 3, p. 1-3]. This programming design allows a single update to include a wide variety of different transactions and requests for processing concurrently (i.e., requisitions, issues, receipts, status, inventory counts, requests for management aids or reports, etc.).

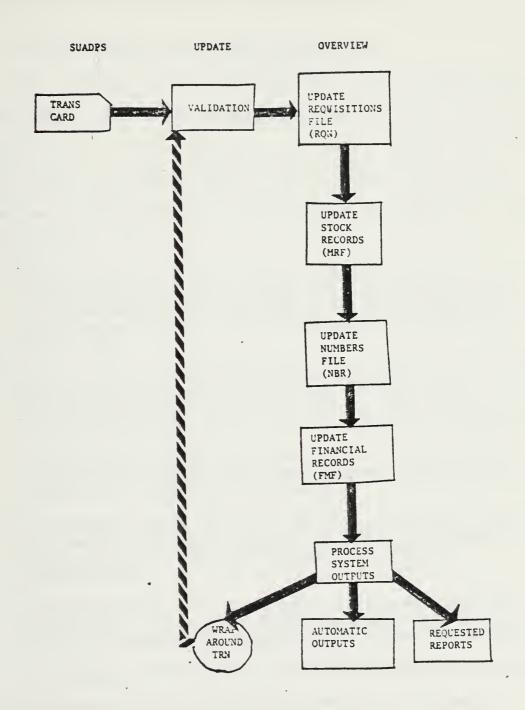
Every update flows through a standardized procedure of sequential file processing. Input documents are collected and held in suspense files awaiting a SUADPS batch update. Exhibit 5 provides a simplified overview of a SUADPS update process. As shown on Exhibit 5, all SUADPS input is first subjected to a validation process and then sequentially processed through the four major files in the following order: first, updating the Requisition File, then the Master Record File to the Numbers File, and finally the Financial Records File. Upon completion of the actual file correction and revision processing, automatic and requested reports are furnished for management reviews and actions. In actuality, the update process is an extremely complex software program, and as such is provided in detail by Appendix C.

The four distinct types of updates scheduled by the Supply Officer are designated as a Daily, Weekly, Monthly, or Yearly. All four types of updates essentially serve to revise and correct the major SUADPS files. However, the different updates (progressing from a Daily to a Yearly) call for additional successive summarizations of file records



EXHIBIT 5

SUADPS Update Overview





for internal management aids and external required reports.

The management aids and reports associated with financial aspects will be reviewed later in Chapter IV.

## D. SUADPS HARDWARE AND OTHER APPLICATIONS

The computer hardware responsible for the operation of the SUADPS software programs possesses the Navy designation AN/UYK-5(V). It is, however, of a UNIVAC design and is also known as a UNIVAC model 1500 (U-1500). The basic computer system consists of the following [Ref. 4, p. 2-1 through 3]:

- Digital Data Computer Central Processor (U-1218) -- a general purpose, solid state, digital computer with a 16,384 word memory expandable to 32,768 words, an 18 bit word length, and a 4 microsecond read/write cycle time.
- Digital Data Recorder-Reproducer (U-1240) -- a four tape drive unit utilizing seven track 1/2 inch tape with tape density of 200 or 556 bits per inch and read/write speeds of 112.5 ips and 225 ips respectively.
- Input/Output Keyboard Printer (U-1533) -- an operator communications link with the computer with a print speed of 10 characters per second.
- Card Reader-Punch (U-1549) -- an input or output unit for reading or punching computer cards with read/punch speeds of 400 and 200 cards per minute respectively.
- Data Processing Line Printer (U-1569) -- the primary output unit for printed format computer information with an average print speed of 450 lines per minute.

The peripheral equipment generally consists of auxilllary punch card equipment and keypunch/verifier equipments.

The physical operation of this mainframe centralized computer system is the responsibility of the Automated Data



Processing Division of the Supply Department. Although this computer hardware is exclusively managed and operated by the Supply Department, SUADPS is not the only software program the computer system runs. Aboard a Submarine Tender the computer hardware is responsible for time-sharing three distinct customers: Executive Department Administrative Programs, Repair Department Intermediate Maintenance Management Programs (IMMS), and Shipboard Uniform Automated Data Processing Systems (SUADPS). Therefore, these three distinct applications require varying operational procedures, controls, and operator expertise in their actual utilization. The computer hardware system could operate software programs ranging from dental screenings to submarine workload repair schedules, and even financial management reports all within a single day time period.

### E. SUADPS FUTURE PLANS

At the onset of this thesis research, the author was only aware of a plan to correct some of the SUADPS associated hardware. The plan was called Shipboard Non-Tactical Automated Data Processing Program (SNAP). However, further research has shown that this program includes application aspects which will radically change the operations of the SUADPS system. This section of the thesis discusses major changes of SUADPS relative to SNAP.

In order to explain the future plans of the SUADPS system, a certain amount of history of Shipboard Non-Tactical



Automated Data Processing Program (SNAP) as it is related to SUADPS is considered necessary. In 1976 a simple program to procure selected hardware units as partial replacements for some of the outmoded hardware in the AN/UYK-5(V) system was established. This program has since been accomplished in FY 1981/82, replacing the Digital Data Recorder/Reproducer and the Data Processing Line Printer with newer technology and increased capacity similar hardware. The most significant changes were those of an increase in the Recorder/Reproducers' write speed to 325 ips and an increase in the Line Printers' average print speed to 1000 lines per minute.

During the formulation of this initial program, SUADPS users expressed concern that additional improvements beyond those proposed would ultimately be required. During a fleet review, the automated environment within the support fleet was shown to be characterized by [Ref. 7, p. 2-10]:

- ADP systems restricted by inefficient use of large volumes of printed data and keypunch/card oriented data updates
- obsolete sequential processing involving large tape library files
- 3. continual processing backlogs from:
  - a. inability of ADP personnel to keep pace with the keypunch workload
  - b. excessive computer downtime from overworked hardware and associated maintenance support problems
  - c. inability of the printer to keep pace with the print workload
- 4. extensive system operational run time from software design restrictions imposed by the small 16K memory



- 5. both Central Processing Unit and software application saturation from ever-increasing shipboard material inventories and maintenance requirements of complex modern equipments
- 6. unreliable tape drives and printers due to operational requirements in excess of original design specifications.

As a consequence of the findings of the fleet review, the scope of the SNAP program was amplified to more completely replace the antiquated hardware with a general purpose computer system possessing upgraded technological advances and capabilities. Still further operational reviews of the fifty-six major fleet support units (AD, AFS, AR, AS, AS(FBM), CV, LPH, and LHAs) and seventeen Marine Aircraft Groups (MAG) displayed serious deficiencies in SUADPS procedures and application software capabilities. The need for an interactive disk-based real-time processing support was promoted as essential for current and future fleet readiness. With this new requirement, the scope and detailed objectives of the SNAP program were once again significantly expanded. The SNAP program then began to expand in an effort to include both improvements in SUADPS hardware by actual unit replacements and in SUADPS software by incorporation of "Real-Time" programming.

With the SNAP program well underway, surveys of the majority of the Navy's smaller ships indicated that their operations were also under a very heavy administrative and management burden. Current fleet operations required labor intensive manual efforts even though significant automated



management technologies were available. In 1978, the CNO approved yet another scope increase to the SNAP program for this automated support to smaller fleet units.

The restructuring of the SNAP program was completed to consist of:

SNAP I--Upgrade ADP for the major support ships

## Phase 1

- replace the AN/UYK-5(V) hardware weak links
 of tape drives and line printers

# Phase 2

- replace the CPU and other peripherals with modularly expandable third generation systems
- redesign application programs to exploit SNAP capabilities (particularly real time programs)
- fully integrate logistics support
- provide standard ADP for other non-tactical management information systems

SNAP II--Provide ADP for the smaller Naval ships

- replace manual operations with automated
- reduce the administrative workload
- fully integrate logistics support

As specified by OPNAVINST 5230.16, the overall concept of the SNAP program is that: "A standard automated information system will be utilized by all fleet operational and direct support units, afloat and ashore." The automated hardware systems (not procured to date) will most likely be entirely different between SNAP I and SNAP II. However, the functional interfaces and software will incorporate the concept of interoperability.



In an effort to comply with the CNO objective number 5 (FY 1980), which was to alleviate the administrative burden on the fleet, extensive software application programs are being researched. Currently the SNAP program has projected to automate current procedures utilizing revised SUADPS software real-time programming in the three major areas of:

### SUPPLY

- supply and financial records (SUADPS)
- food service
- retail ship store operations
- inventory control (SUADPS)

### MAINTENANCE

- preventive maintenance system (PMS)
- maintenance support systems
   (IMMS, OMMS, AIR-3M)
- technical library operations
- support and test equipment

# ADMINISTRATIVE

- administrative and word processing
- PASS and disbursing operations
- medical and dental operations
- training support

The increased hardware capabilities projected in SNAP I

Phase 2 should alleviate a significant amount of the previous

constraints. The simple sequential batch processing tape
oriented, 16K memory hardware system is being replaced on



the Submarine Tenders with an "A" configuration displayed in Exhibit 6. Hardware acquisitions to support the entire Naval fleet as projected in the SNAP program is shown in Exhibit 7.

As part of the SNAP program, the most extensive changes that will ultimately affect the SUADPS financial information and control system are those associated with the redesign of the entire SUADPS software for a real time capability. The new SUADPS system is projected to have both an on-line mode or batch data generation alternatives.

This software redesign is designated SUADPS Real Time (SUADPS-RT). The interfaces associated with SUADPS-RT are highly complex (see Exhibit 8) but similar to the original SUADPS software design. SUADPS-RT, as compared to SUADPS, reflects changes mostly directed at providing a unified data base for real time accessibility vice batch processing of separate tape files of the original SUADPS design. Exhibits 9 and 10 are provided for two views of this newly proposed SUADPS-RT system. This change will also effect a much closer customer and SUADPS interface due to the primary input by end users via cathode ray tube (CRT) hardware terminals. End use customers requesting file inquiries will be on a real time basis. However, input requiring data base updating will be at the direction of the overall SUADPS-RT system operators with options of either on-line or batch processing.

The specific objectives of the projected SUADPS real time software (SUADPS-RT) which relate to financial information



SNAP I "A" Configuration ADPE

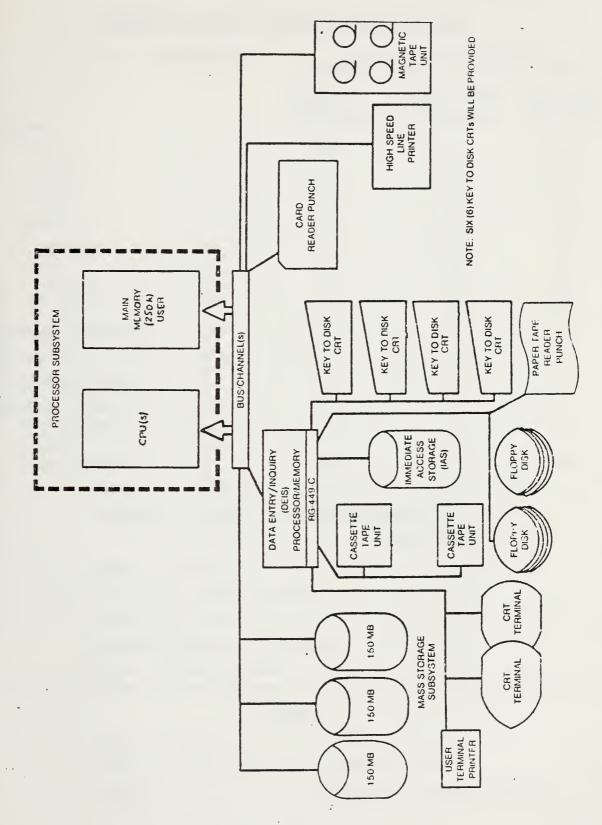




EXHIBIT 7

SUMMARY OF SNAP I HARDWARE ACQUISITION

A	ctivities (# of)	Specific Equipments (1 Basic System plus the below)				
		Video <u>Terminal</u>	Video Term w/Printer	Low Speed Printer		
Ships						
AD	10	40	36	10		
AFS	7	24	20	10		
AR	4	36	32	9		
AS	5	59	57	13		
AS (FBM)	7	62	60	13		
CV	13	77	70	21		
LPH/LHA	12	41	34	12		
Marine Air Groups	17	27	27	13		
Shore Sites	23	?	?	?		
Training Sites	3	?	?	?		
Central Design	1	?	?	?		
Activities		<del></del>				
Total Installations	102	3405	3122	830		

SUMMARY OF SNAP II HARDWARE	ACQUISITION
	Activities (# of)
Ships, current	384
Ships, new construction	68
Training Sites	17
Central Design Activities	2

471

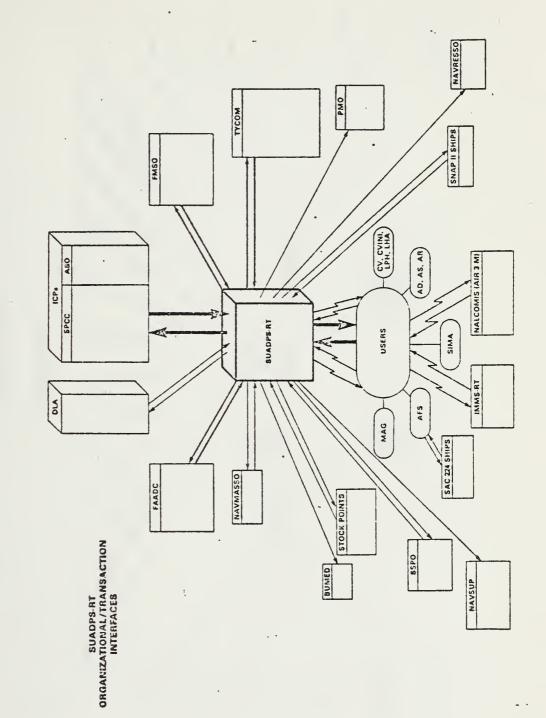
### COSTS

Total Installations

SNAP	I,	Phase	I	\$	8M			
SNAP	I,	Phase	II	17	78M	and	rising	
SNAP	II			15	50M	and	rising	rapidly

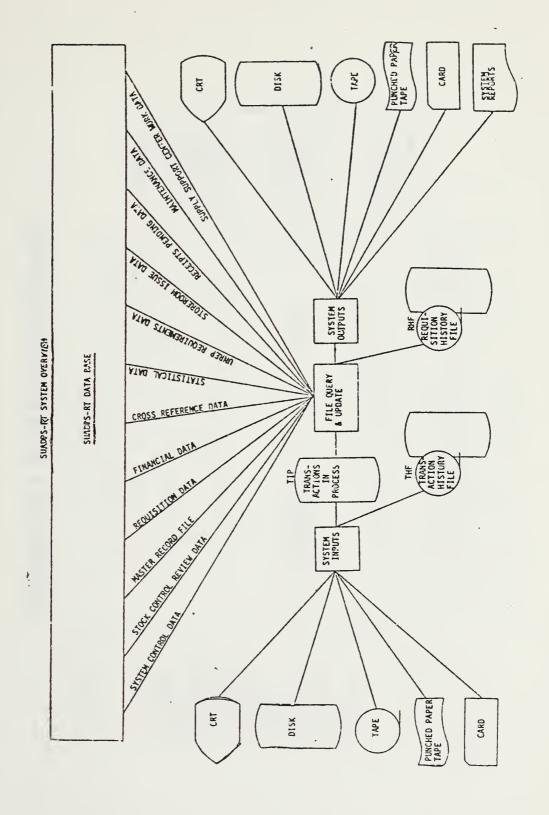


SUADPS-RT Organizational/Transaction Interfaces





SUADPS-RT System Overview





SUADPS-RT System Overview

#### PROCESSING SUADPS-RT FINANCIAL MANAGE: NENT SU3SYSTEM SUADPS RT INVENTORY MANAGE. MENT SUBSYSTEM SUADPS RT LOGISTICS MARAGE-SUBSYSTEM MENT SUADPS-RT SYSTEM OVERVIEW PRINTED REPORTS CARD SUADPS-RT EXECUTIVE SURSYSTEM CARD PAPER TAPE SYSTEM INPUTS PAPER TAPE SYSTEM OUTPUTS TAPE SYSTEM CONTROL TAPE) DATA BASE MANAGEMENT SVSTEM SMAPI CaT CHI SUPPLY SUPPORT CELLIER VORK DATA \*STOREHOOM ACTION • FEQUISITION DATA • FINANCIAL DATA • CROSS REFERENCE STATISTICAL DATA STOCK CONTROL REVIEW DATA \*SYSTEM CONTROL •BACKUP! RECOVERY DATA •RECEIPTS PENDING DATA •KLANATENANCE SUADPS RT DATA BASE ANDIT THAIL HISTORY DATA DATA DATA DATA DATA DATA DATA Š



and control functions as established by its functional description are [Ref. 7, p. 2-7]:

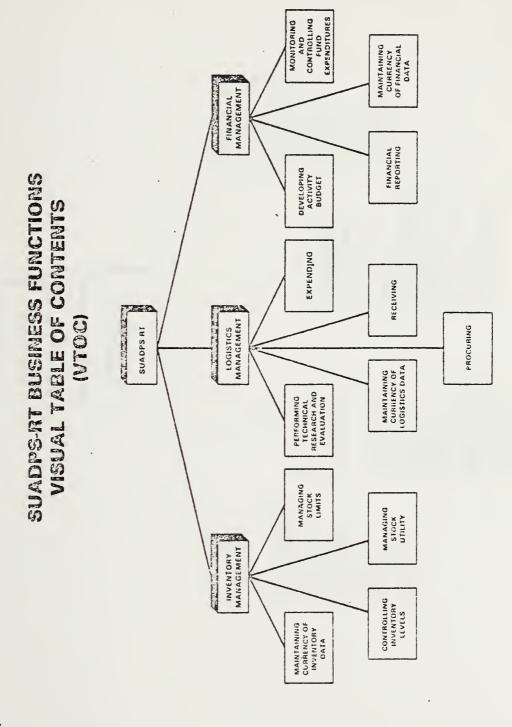
- a. Reducing the amount of time and effort required to accomplish supply transactions and to access information by automating repetitive and time-consuming supply support functions.
- b. Improving utilization of fleet operations and maintenance funds by more timely accounting and validation of outstanding requisitions.
- c. Significantly improving the accuracy, consistency, and timeliness of supply, maintenance, and financial data.

The specific objectives of the SUADPS-RT system with respect to improving all functions of SUPPLY reprinted from Ref. 8 are enumerated in Appendix D.

SUADPS-RT redesign in general appears to be little changed from the content of the original SUADPS software concepts of inventory, logistics, and financial management (see Exhibit 11). With respect to the specific financial management functions of SUADPS-RT, a more detailed content chart is provided in Exhibit 12. In the author's opinion, the major improvement potential for SUADPS-RT is centered in the reduction of manual interfacing efforts currently associated with the original SUADPS design and the faster real time processing capability.

The milestones for the SNAP I Phase 2 Program indicate Submarine Tenders are projected for initial implementation







SUADPS-RT Financial Functions

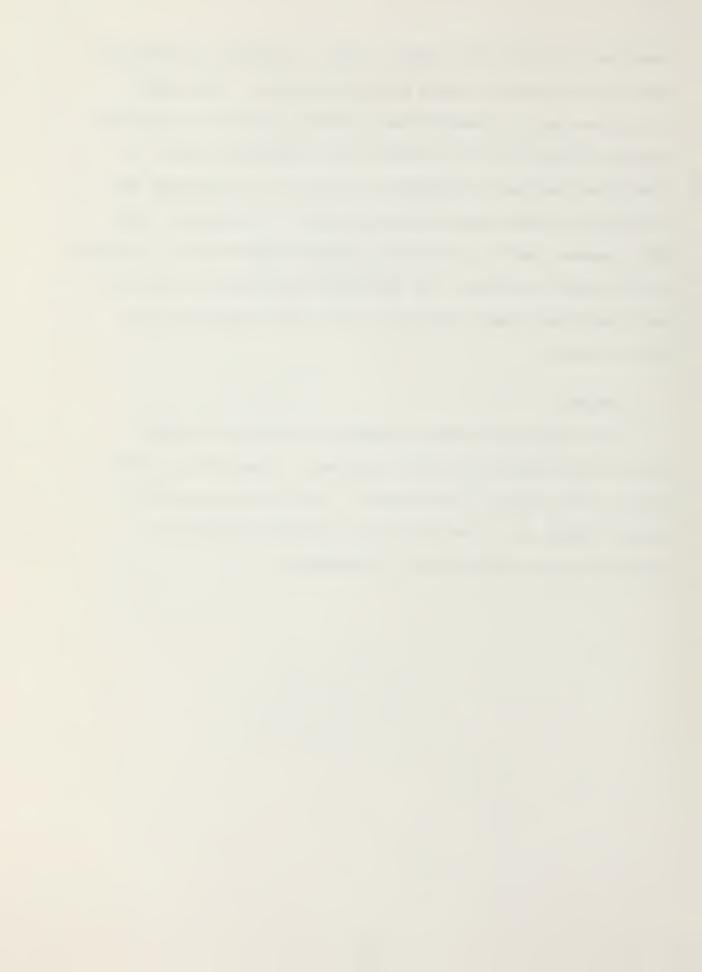
AND CONTROLLING FUND EXPENDITURES FINANCIAL MONITORING MONITORING EXPENDITURE TRENDS CONTROLS CHANGING POSTING MAINTAINING CURRENCY OF ACCUMULATIVE REPORTS MAINTAINING CURHENCY OF APPHOPHISTION DATA MAINTAUING CUENCNCY OF OPFAR HISTORY DATA CURRENCY OF FINANCIAL DATA MAINTAINING A CONTRACT OF THE PARTY OF THE NANAGEMENT FINANCIAL SUADPS-RT A red to the last of the last of the last of PREPARING OPTAR ACCOUNTING REPORTS PREPARING COST ACCOUNTING REPORTS ACCULIULATING FINAGICIAL MASTER DATA REPORTING FINANCIAL ACCOUNTS REPORTS PREPARING FORECASTING ANNUAL ACTIVITY BUDGET DEVELOPING ACTIVITY BUDGET ATHUAL BUDGET PROGRAMMING REQUESTING ALLOCATION ALLOCATION DISTRIBUTING ALLOCATION RECEIVING



sometime in Fiscal Year 1983 or 1984. Exhibit 13 provides additional detail on these milestone plans. Since SNAP II applies only to smaller Naval ships and not to Submarine Tenders, Exhibit 14 is provided for information only. A simplified version of SUADPS-RT software is projected for all smaller Naval ships within the SNAP II Program. The SNAP Program, and its revised software SUADPS-RT as a portion of the overall project, is scheduled for usage by the U.S. Navy Operating Fleet through a life cycle ending in the next century.

#### F. SUMMARY

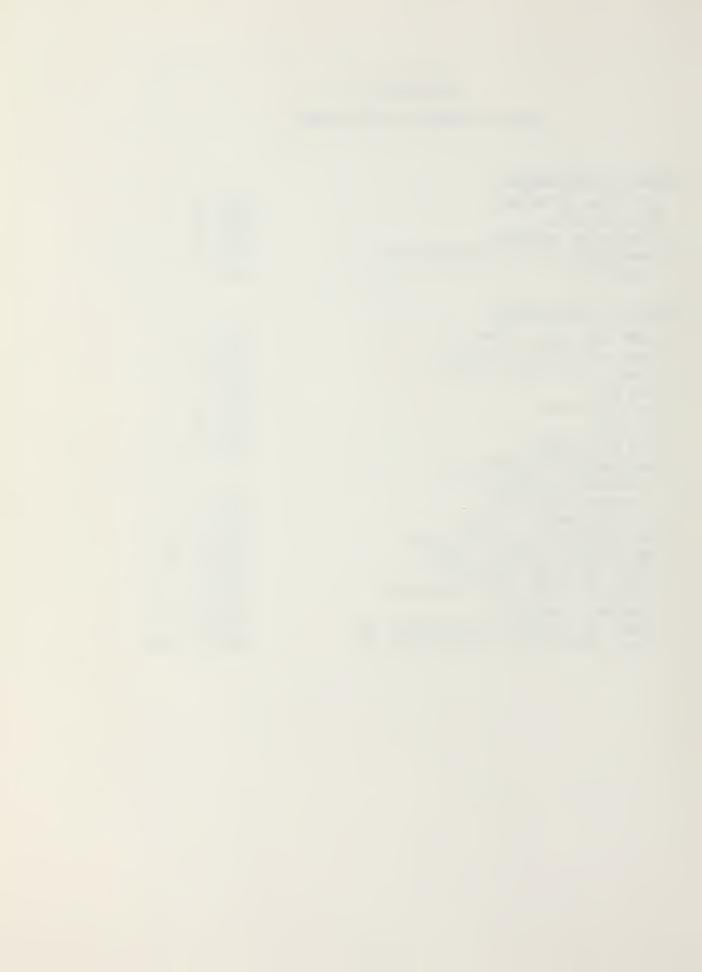
This chapter provides a general overview of SUADPS' system objectives, history, framework, operational procedures, and plans for the future. The next chapter will review SUADPS as it pertains to a specific Submarine Squadron/Tender operational environment.



### EXHIBIT 13

#### SNAP I OVERALL MILESTONES

PHASE I MILESTONES		
ADS PLAN APPROVAL RFP ISSUED CONTRACTS AWARDED INSTALLATION OF PERIPHERIALS COMPLETED		DEC 78 MAY 78 SEP 78 APR 79 MAY 80
PHASE II MILESTONES		
ADPE ADS PLAN APPROVED IMMS ADS PLAN APPROVAL SUADPS ADS PLAN APPROVAL GSA DPA RFP SENT OUT NO BIDS RFP RE-ISSUED PROPOSALS RECEIVED BENCHMARKS CONDUCTED ON		DEC 78 JUL 80 AUG 80 DEC 79 DEC 79 JUN 80 SEP 80 JAN 81
THREE FINALISTS  RFP AMENDMENT ISSUED  SDP MILESTONE II APPROVAL  NEGOTIATE CONTRACT AWARD  FIRST ARTICLE DELIVERY  INSTALL, TEST FIRST ARTICLE  EVALUATE, ACCEPT  START PRODUCTION DELIVERIES  START PRODUCTION DELIVERIES	(A)	AUG 81 OCT 81 SPRING 82 SPRING 82 AWARD + 4 AWARD + 5 AWARD + 6 AWARD + 8 AWARD + 20



#### EXHIBIT 14

#### SNAP II OVERALL MILESTONES

MENS APPROVAL BY ASN(FM) PROPOSED FUNCTIONAL DESCRIPTION (FD) INITIAL PROGRAM MANAGEMENT PLAN SDP MILESTONE I APPROVAL BY ASN(FM) PROTOTYPE TESTS COMPLETION NAVSEA EVALUATION OF SBA 8(a) REQUEST DRAFT SYSTEM IMPLEMENTATION PLAN INTEGRATED FUNCTIONAL DESCRIPTION	JUNE OCTOBER OCTOBER NOVEMBER DECEMBER JANUARY FEBRUARY	1980 1980 1980 1980 1981
COMPLETION	MARCH	1981
FREEZING OF INITIAL SOFTWARE	MARCH	
CONGRESSIONAL INQUIRY BY BROOKS COMMITTEE	APRIL	1981
TYCOM REVIEW OF INITIAL SOFTWARE PACKAGE	APRIL	1981
OSD HEARINGS	MAY	1981
GAO PROGRAM REVIEW	JUNE	1981
	JULY	1981
INITIAL INSTALLATIONS SCHEDULE COMPLETION	AUGUST	•
RFP ACCEPTANCE BY SBA	SEPTEMBER	•
SYSTEM DECISION PAPER FOR MILESTONE II	OCTOBER	
ADPE CONTRACT	NOVEMBER	•
DRAFT NAVY TRAINING PLAN	DECEMBER	
HARDWARE BENCHMARK	<b>JANUA</b> R Y	•
ANNOUNCE HARDWARE SELECTION	FEBRUARY	•
DELIVER HARDWARE TO CDA	MARCH	•
INITIAL SOFTWARE RELEASE OPERATIONAL TEST CONDUCT RELIABILITY/MAINTAINABILITY/	APRIL	1982
AVAILABILITY DEMO CONDUCT SITE SURVEYS ON INITIAL PRODUCTION	MAY	1982
INSTALLATION SHIPS	JUNE	1982
COMPLETE FIRST ARTICLE DATABASE/INITIATE	****	4000
DATA ACQUISITION	JULY	•
CDA COMPLETE APPLICATIONS SOFTWARE CONVERSION	AUGUST	•
CONDUCT SURFACE FIRST ARTICLE TEST (AFLOAT)	SEPTEMBER FISCAL	•
IMPLEMENT FOUR (4) SYSTEMS PER MONTH	1983 and	
	190) and	1704



# III. SUBMARINE SQUADRON/TENDER ORGANIZATION AND FINANCIAL OPERATIONS

Organizational structure is one of the oldest and most thoroughly studied concepts in the area of management science. However, organizational structures are generally less than perfect. A certain amount of organization ambiguity, inconsistency, and conflict seems to be inevitable. Generally an organizational structure is an arrangement of activities and resources in a framework conducive toward its overall objectives and goals. Therefore, organizational structure should not be over-looked in a review of the financial management area of the SUADPS operational environment. This chapter deals with the elaboration of specific organizational relationships, operations, and funds involved in fiscal management of submarine forces.

## A. FINANCIAL RESOURCES AVAILABLE TO A SUBMARINE SQUADRON/TENDER

The financial resources available to a Submarine Squadron/
Tender are highly varied. These funding sources fall within
four separate appropriation categories: Military Personnel
Navy (MPN), Other Procurement Navy (OPN), Navy Stock Fund
(NSF), and Operations and Maintenance, Navy (O&M,N). Military manpower costs associated with personnel assignments
to the Submarine Squadron/Tender are funded from the MPN
appropriation. Industrial plant equipment and other similar



costly operating equipments in support of Submarine Tenders' repair missions are funded from the OPN appropriation. The initial cost of inventory in support of the Submarine Tender's supply mission is funded by the NSF. All operating budgets required by the operating squadron staff, assigned submarines, and submarine tenders for material and services applied or consumed in accomplishing their tasks or missions are funded by the O&M,N appropriation.

The SUADPS system is involved with the fiscal accounting and control of NSF and O&M,N appropriations. However, the Navy Stock Fund and related inventory management aspects of SUADPS are beyond the scope of this thesis and will not be reviewed further. The emphasis of this study is on the operational afloat end user operating budgets within the Operations and Maintenance Navy (O&M,N) appropriation only.

Within the O&M,N appropriation further funding breakdowns to separate operational budgets designated specifically for Supply and Equipage (S&E) or Repair of Other Vessels (ROV) fiscal resources are generally effected. ROV funding is only provided to tenders or repair ships to fund the cost of material and outside contracted services requires in the performance of their industrial repair mission. S&E funding is general purpose resources provided to all cost centers for their own ships' usage fulfilling day-to-day operating, maintenance, and administrative requirements (repair parts, services, equipage, and consumables).



# B. SUBMARINE SQUADRON/TENDER ORGANIZATION AND ASSOCIATED FUNDS FLOW

Within the Resource Management System (RMS), operational funding for the submarine force is provided along the chain of command structure. The SUADPS environment studied within this thesis review was that of a portion of the U.S. Pacific Fleet Submarine Forces. For the Pacific Fleet Submarine Tenders, Operation and Maintenance, Navy (O&M,N) funds are passed from the Secretary of the Navy to the Chief of Naval Operations to the Commander in Chief, Pacific Fleet, to the Commander Submarine Force Pacific Fleet (COMSUBPAC). COMSUB-PAC in turn passes funding to its applicable Submarine Squadron Commanders. Three separate Submarine Squadrons were the immediate seniors in the chain of command to the Submarine Tenders contacted for this thesis. Submarine Group Five (COMSUBGRU 5) and Submarine Squadron Three (COMSUBRON 3) are responsible for the Submarine Tenders in San Diego, CA., the USS DIXON (AS-37) and the USS SPERRY (AS-12) respectively. Submarine Squadron Fifteen (COMSUBRON 15) is responsible for the Submarine Tender in Guam, M.I., the USS PROTEUS (AS-19). After receipt of funds from COMSUBPAC, the Squadron Commanders issue authority to spend the O&M,N appropriation dollars in the form of Operating Targets (OPTARs) to themselves, their supporting tender and their assigned submarines.

The Submarine Tender then acts as the Squadron Accounting
Activity through the use of its computer and SUADPS system.

In this capacity the Submarine Tender performs the



official accounting function for itself, as well as the Squadron or Group Staff, and all of the Squadron's assigned submarines.

The overall Submarine Tender financial responsibilities with respect to funding have been specified by COMSUBPAC as: "Although the OPTAR amounts granted do not constitute a legal limitation within the meaning of the Revised Statutes, Section 3679, they do represent target amounts which may not be exceeded" [Ref. 9, p. 1-1]. Herein lies at least one reason for the need of an effective SUADPS financial control system, that of fiscal compliance.

The SUADPS financial information and control system is responsible for the funds status reports of each of these separate fund categories. The SUADPS financial managerial reports are specifically responsible for providing the financial status of S&E funds (supplies and equipage costs for own ship, squadron, and supported units), ROV funds (repair of vessels cost for own ship and supported units as a whole), and any reimbursable funds as appropriate. In this way each tender utilizing SUADPS is responsible not only as the accounting activity but also as the centralized source of both internal financial informational management needs and external reporting requirements.

To appreciate the magnitude of Submarine Squadron/Tender funding levels associated with SUADPS financial control system responsibilities, Exhibit 15 is furnished. Within the



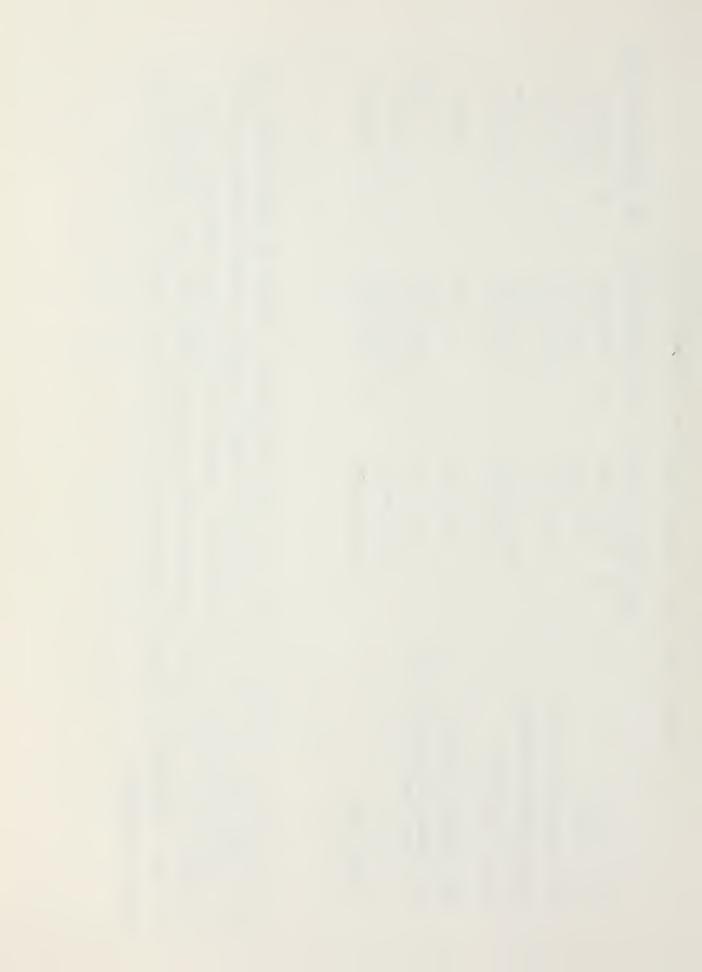
Fiscal Year 1981 Funding Catagories & OPTAR Levels

-37) USS PROTEUS (AS-19)	3 \$ 2,196,000	3,490,000	1,037,000		6,723,000	255,000	*	\$ 6,978,000
USS DIXON (AS-37)	\$ 2,012,000	1,111,000	2,995,000	7,200	6,125,200	130,000	3,565,000	\$ 9,820,200
USS SPERRY (AS-12)	\$ 1,345,000	571,000	4,102,000		6,018,000	110,000	4,689,000	\$ 10,817,000
	. S&E (Tender)	. ROV (Tender)	. ROV (Supported Units)	. Reimbursables (Tender)	Tender Sub-Total		. S&E (Combined Total for all Supported Units)	Grand Total

m O

Supported Units' accounting records have been transferred. During FY 1980 and 1981 all USS PROTEUS supported units were phased out of their strategic forces mission and were to date. CONSUBRON 15 was also disestablished in FY 1982 as a result of the supported AS(FBM) to an AS. No specific supported unit responsibilities have been reassigned subsequently reassigned or decommissioned. The USS PROTEUS has now converted from units' transfers.

III III



categories of funds designated E and F in Exhibit 15 each squadron and ship is assigned an individual OPTAR for S&E such that the Commanding Officer retains the responsibility for control of his fiscal obligations. The tender would additionally hold OPTARs for ROV (own ship and total other supported units). For the purposes of SUADPS financial responsibilities, the funds flow stops here; accounting for each squadron staff and individual submarine is the lowest level of funds breakdown. However, within the Submarine Tender itself (funds designated by A through D in Exhibit 15), internal OPTAR funds are further divided into Departmental and even to Divisional allotments utilizing the SUADPS system. These internal OPTARs are individually managed by Repair Parts Petty Officers (RPPOs) who act as divisional or departmental representatives to the Submarine Tender's financial information and control system. The supported submarines may employ the same sort of control (relating to departmental OPTARs) but do so manually.

C. ROLE OF THE FLEET ACCOUNTING AND DISBURSING CENTER

Although the Supply Department of the Submarine Tender

is responsible for the operation of the SUADPS system in its role as the Squadron Accounting Activity, still further accounting assistance is ultimately required. For customer requisitions (generated within the entire squadron) filled by the Submarine Tender's inventory stocks, the SUADPS system creates internal obligations and expenditures from these



demands in internal OPTAR records and reports this data to the Fleet Accounting and Disbursing Center (FAADC) as facts. For those customer requisitions (generated with the entire squadron) not available from the Submarine Tender inventory, the Fleet Accounting and Disbursing Center (FAADC) becomes very much involved.

Whenever external requisitions are submitted from the Submarine Tender, or other members of the squadron, to the outside supply system, the billings and charges for these materials are sent to FAADC by the issuing activity. These same transactions should also be reported in SUADPS as obligations for outstanding material by the tender. FAADC performs an accounting matching process between receipts reported by the SUADPS system of the Submarine Tender and the material charges reported by the external supply system as applicable to the Submarine Tender, Squadron, or supported units. Any discrepancies are investigated and assigned to the responsible activity in the form of OPTAR adjustments through FAADC difference listings. As an example, common discrepancies are those associated with quantity differences or price adjustments.

Just as the SUADPS system has priority for corrective adjustments to RPPO internal OPTAR records from internally generated requisitions, FAADC has priority over corrective adjustments to SUADPS OPTAR records from external requisitions. FAADC additionally receives all Submarine Squadron/Tender SUADPS Budget OPTAR Reports, adds known in-process



adjustments and reports these OPTAR statuses to the associated Type Commander. Exhibit 16 provides an accounting system overview of this process and portrays the roles of the various players.

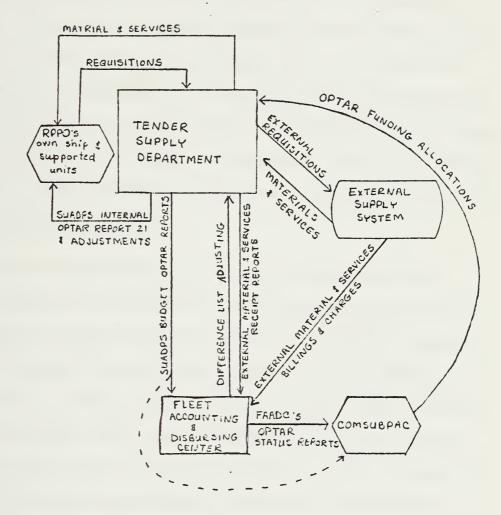
## D. SUMMARY

This chapter examines the organization relationships, structure, and key players involved in the SUADPS financial operations. The following chapter will more specifically review the SUADPS reports and management aids as they pertain to the operational end users of the SUADPS system for financial management purposes.



EXHIBIT 16

## ACCOUNTING SYSTEM OVERVIEW





## IV. ACCOUNTING, CONTROLLING, AND REPORTING PRACTICES UNDER SUADPS

SUADPS is an automated software system utilized by major Naval afloat units for supply and accounting functions. However, all automated systems require manual interfacing, not only for input but for interpretation of output and ultimately for assistance in decision making by operational users. This chapter is provided to delineate some of these SUADPS and manual interfaces to show how they work together and relate in an integrated system for financial accounting and management purposes.

## A. GETTING A TRANSACTION INTO SUADPS FINANCIAL FILES

To provide an operational understanding of the manual and automated interfacing involved in the SUADPS system, a simplified requisitional flow process will be related in this section. A Repair Parts Petty Officer (RPPO), acting as his divisional work center representative, initiates all of his division's material requests. After preparation of the requisition and manually recording the document in his Divisional OPTAR Log, the request for issue is then submitted to the Submarine Tender's Supply Department. Here the Supply Support Division of the Supply Department verifies that the data elements of the requisition have been properly annotated. Onboard material availability information is also reviewed through the use of the tender's

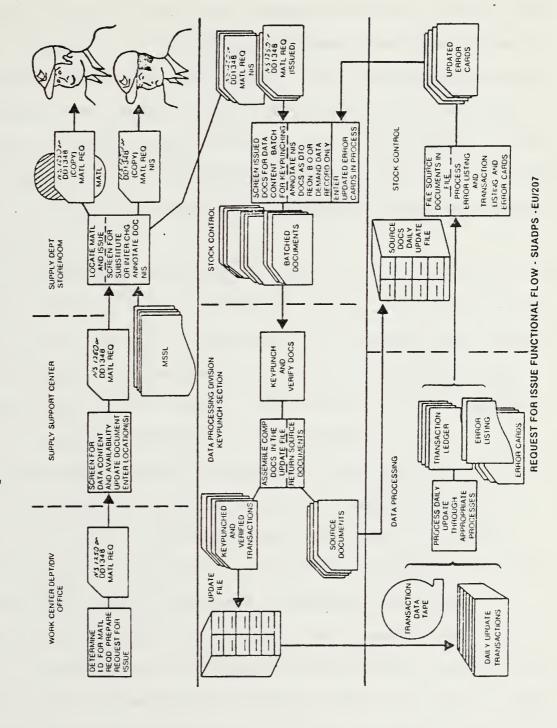


inventory printout called the Master Stock Status Listing (MSSL). If the material is not carried by the tender or is unavailable from the tender's inventory stock, then the requisition is submitted directly to the Supply Department's Stock Control Division. The Stock Control Division in turn prepares an external requisition, submits it to the outside supply system and refers this transaction (by means of a duplicate copy) for input into the SUADPS accounting system. If the material is available onboard the tender, the requisition is submitted to Stores Division of the Supply Department for issue. A copy of the issue documentation is forwarded to the Stock Control Division (after issue) for input into the SUADPS system.

The Stock Control Division verifies all data input content, batches these documents together and submits them to yet another division of the Supply Department designated as the Automated Data Processing Division (ADP) for input to the SUADPS records. These source documents are keypunched and verified by the ADP Division and returned to the Stock Control Division for verification. Once verified and all corrections are accomplished, these keypunched input transactions are held in an update file for the next scheduled update. The ADP Division is then responsible for processing the actual update on the computer hardware and forwarding the output reports back to the Stock Control Division for their subsequent review, correction, or distribution. Exhibit 17 is provided for a visual overview of the requisitional



Request for Issue Functional Flow





flow process. The receipt process involved in the SUADPS system is also similar in complexity and Supply Department processing (see Exhibit 18).

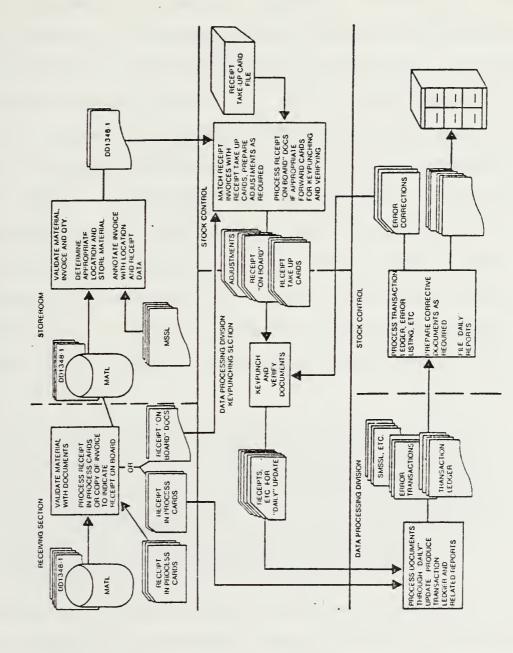
At the basic level most automated computer systems function similarly. Essentially, a system of machine hardware executes an input of data through a set of processing steps (software) to compare, add or subtract units of data while keeping a running tally of the process. This input, process, and output system generally entails the assessing and processing of data into a format for management interpretation and actions.

The financial processing of data is one of the last steps in the SUADPS software processing routine. By design this would appear to be for the purpose of insuring that the maximum accuracy and timeliness of financial information are accomplished in each update. The details of this process can be observed in Exhibit 5 and Appendix C.

The SUADPS financial segment is described as "by far the most complex and therefore potentially most confusing"
[Ref. 4, p. 4-3]. This statement was found to be quite accurate in its assessment of the SUADPS financial process.
An initial survey by the author revealed that there are twenty-one different format types for financial data input which, when subject to a SUADPS update process, could result in more than three hundred potential types of errors in the initial validation step alone. A brief summary listing of these errors is provided in Appendix E.



# Receipt Processing Functional Flow



RECEIPT PROCESSING FUNCTIONAL FLOW FOR SUADPS-EU/207



Four specific output files are automatically generated from any type of SUADPS update; transaction listings, transaction error listings, suspended transaction listings, and information transaction listings. Transaction listings are defined as "a history of all transactions processed successfully...listings provide an audit trail for reconstructing actions" [Ref. 3, p. 2-20]. The transaction error listing contains input transactions that did not pass the validation process and therefore failed to process during the update. An important caution indicates "transactions appearing on the error listing must be corrected and reinput during the next update since they do not appear on the transaction ledger and the computer maintains no record of them" [Ref. 4, p. 3-15]. Exhibit 19 provides a sample transaction error listing. The suspended transaction listings are defined as:

containing transactions which do not have invalid data fields or data elements but which could not process because of certain conditions which exist in the stock records. The suspended transactions will appear on the suspended transaction listings for a maximum of 15 updates.... If the condition is not corrected within the 15 update period, the transaction is deleted from the suspended transaction listings and appears on the transaction error listings. [Ref. 3, p. 2-20]

Exhibit 20 provides a sample suspended transaction listing. The information transaction listings contain transactions for possible management attention provided for management review and possible action. Exhibit 21 provides a sample information transaction listing.



## EXHIBIT 19

## Transaction Error Listing

SOT 860 TRANSACTION ERROR LISTING

24 Apr 1981

250	250	250	2		15			24	24	24		24	15			•			
٣	3	m	5	19	151	225	30	76 14	14	14	15	19	151	15	176	15	14	14	
MKNR	MKNR	MKNR	MKNR	MKNR	MKNR 151	MKNR	MKNR	MKNR	MKNR	MKNR	MKNR	MKNR	MKNR	MKNR	MKNR 176	MKNR	MKNR	MKNR	
0024000		003000	10		0002610V	0000000		00000088V	SHO1 0000088V	SSEC 00000008V	Λ	0002565V	>	>	00015000V	000050000	0000177V	0000392V	
-	-	7	085		-			4 SH01	SHOI	SSEC		۵,	0		Ü	ŏ			
F505 58	F505 58	9GLK512	*	081	505	1 F AA	ADDLCC *****	YE14N CC 9QCALENDAR81	CC 9QCALENDAR81	CC 9QCALENDAR W				270507	00189		04606		
351KY6 2HL	351KY6 2HL	ACC 9GL	96	0	35851ACG SDLF505	JCCL20001	1 AD	270518 YE14N CC 9QCA	cc 9qca	CC 90CA	12 CH	31 CR 87	71 CG	¥6	KZ1902	90	51 KZ 91	51 KZ 8G	
EA00001V0471210292461 V05851KY6 2HLF505	EA00G01V0471210282459 V05851KY6 2HLF505	EA00001V0F8E110290601	CN0005V0471200871470	ER00006V0471202880249	000000585110266A01RY	FT 11 9510015962032	EA 00010	EA00001 058F11114 EA00002V058510353D469 *	EA00003V0585103514289	EA00006V0585103470266	EA00001V0585110946A02NY5142	EA00003V2078403120571RV0581	5A00100V0585110936A03NV0471 ** ****	EA00100V0585110626A10 Y2020	EA00001V0585103620186	V0585110606A00	BX00005V0471203450696 05851	EA00006V0471202880249 05851 **	
AOANNZK4320002168783 ***	AOANNZ4320002168783 ***	AOENNZ 0260 ***	AP1S9G 5970001661681	AS1S9GK5977003833354	AOANN 7U8415002668692	NC9 9510005962031	x09 13110001585981	X13 15840000672759 X31 17510010224973 **********	X31 17510010224973 *********	X31 17510010244025 *********	X31 15999000053196	X31 15330003002055	x31 15999000047763	X32 15845000057978	X39NNZ15315004966249	X50	X71 16505001182347 **:********	X71S9G15977003833354 ***********	

99



## EXHIBIT 20

	10	ھ		13	6	6	∞.	10	6	<b>&amp;</b>	8	13	11	10	6	10	6	. 13	
24 APR 1981 UPDATES UNTIL ERR		260		244	260					260									
PDATE	IR 24	IR 24	IR 24	IR 24	IR 24	IR 24	IR 24	IR 24	IR 24	IR 24	IR 24	IR 24	IR 24	IR 24	IR 24	IR 24	IR 24	IR 24	6
.981 U	MKNR	MKNR	MKNR	MKNR	MKN R	MKNR	MKNR	MKNR	MKNR	MKNR	MKNR	MKNR	MKNR	MKNR	MKNR	MKNR	MKNR	MKNR	2000
24 APR 1	\$400 00001700***	SE00 0000462V***	00001720***	0028451V	000000070***	00000004**	0003120V***	0001081V***	0000020V***	00000260***	SBUL 0000249V***	0017341V	SG01 0000244V***	SG01 0000244V***	00002440***	SG01 0000244V***	00007410***	0000299V	
	2000	SE00			۵,	Д			а		SBUL		8601	SG01	\$601	SC01			
CTION LISTING	11NSUP 12	90PLIERS, SLI	96	36	96	26	90	90	118	26	9QWAX FLOOR	96	9QBRUSH, DUST	9QBRUSH, DUST	9QBRUSH, DUST	9QBRUSH, DUST	9.0	9.0	0000
SOT 860 SUSPENDED TRASACTION LISTING	P000003V058510346D260 CC	EA00003VD58510339C150 C2	HD00200V058510336FC83RY05851 CG	EA00007V0572303420890RV05851 CR	EA00179V058510344C142RY05851 C2	EA00023V058510337FC21RY05851 CT	BX00004V058510339D848RY05851 CC	BX00072V0572303300786RV05851 CC	18105001817899X3EA00150V058510333FF13RY05851 CG	FT00100V058510340C155RY05851 C2	CL00006V0585103396879 CC	DR00004V0515003500731RV058FL CR	EA00003V058510333C587 CC	EA00007V0515003470722 CC	EA00002V0585103445158 CC	EA00001V058510346A275 CC	PR00010V0585103375134RY05851 CC	EA00012V058510352D27rRY05851 CC	
	10108LE5012820	1520000596711	15975000742072	14320001255933	15940001434777	15305001440344	17530001450416	17350001708330	18105001817899x	15330001978491	17930002052870	19150002359062	17900002406358	17920002406358	17920002406358	17920002406358	18415002687859	17110002688675	
	X31	X41	х31	X31	X31	X31	X31	X31	X31	х31	X31	х31	X31	X31	x31	X31	X31	X31	100



24 APR 1981	MKNR 50 50 50 50 50	56	MKNR 50 50 50 50	56		244 1,321,14	244 1,270.00	300
2	MKNR	MKNR 56	MKNR	MKNR 56	MKNR	MKNR 244	MKNR 244	MKNR 300
						0001362	012700N	0000845V
INFORMATION TRANSACTION LISTING	AKZ 9GGJ005228	CGNNZ	AKZ 9GGP512354	092	1 EA IC PG	SC LOSS	2S 1H N62783	KZ 9Q
SOT 860 INFORMAT	ACINVZS9330002650481 R000003v0585101351083RY1114	EA00006V0471202880243 V05851	FA00001 0585100730284 1114	GL00002V0471201121948	14470003070415X3 USE LOCAL C/N CHG UI FROM EA IC PG	15977000075286 EA00097 058511114 220046	14935000075349 EA00001N6279210701601	X71GSA15120002401412 EA00002V0471203080297A 0581
	ACINVZS9330002650481	AE1NNZU5977003833354	AF1NNZ4MVO	AU1GW0	INFO RCD 14470003070	X11 15977000075286	X38 14935000075349	X71GSA15120002401412



The validation process of a SUADPS update, although extensive, cannot be relied upon to catch every possible error condition. A miskeypunched quantity or price, for instance, would fulfill all requirements of the validation process and process against the financial master file but actually still be in error. Once these types of problems are discovered, an adjustment to the records must be accomplished through a reversal transaction. A reversal transaction requires the identical coding of the input document with an eleven zone overpunch in card column 25. This method of correction is inordinately time-consuming. However, the correction of financial records in SUADPS is specifically designed for narrowly defined corrections for financial record security purposes. Access to the actual financial tables for corrections can only be effected through Naval Maintenance and Supply Systems Office management assistance teams, again for the purposes of reducing possible fraudulent actions. To summarize, the corrections of the Financial Master File are relatively much more difficult by design in relation to the other major SUADPS files.

## B. FINANCIAL REPORTS AVAILABLE IN SUADPS

SUADPS operates in a mode wherein financial reports are generated only upon specific request. Thus demanded reports are scheduled on a periodic basis for management support of financial decisions and control actions. A daily financial



update request will produce the following financial management reports:

- Report 21 Commanding Officer's Budget Report
- Report 21 Departmental Budget Report
- Report 21 Divisional Budget Report
- Report 21 Supported Unit Budget Report
- Report 22 Listing of End Use Differences between obligated and expended amount
- Report 23 Detail listing of prior year's transactions
- Report 24 Message Report of Credits
- Report 46 Availability Cost Report

A weekly financial update request will provide all reports generated in a daily update with the addition of an inventory management report not germane to this thesis. A monthly financial update request will provide all reports generated in a weekly update plus the following additional financial reports:

- Report 20 Unfilled Order Summary
- Report 41 (NAVCOMPT 2157) Supported Units Budget OPTAR Report
- Report 42 (NAVCOMPT 2157) Reimbursable Budget OPTAR Report
- Report 47 (NAVCOMPT 2157) Own Ship's Budget OPTAR Report
- Report 48 NSA Financial Summary Report

A yearly financial update request will provide all reports generated in a monthly update but additionally will conduct a closing out process in preparation for the next fiscal year.



Exhibit 22 provides a summary of the daily and weekly financial update reports. Exhibit 23 provides a summary of the monthly and yearly OPTAR reports. Exhibits 22 and 23 are concerned with only the SUADPS financially related report outputs as per the emphasis of this thesis. However, to demonstrate the complexity of the entire SUADPS monthly output reports for both the inventory/resupply and the financial management functions, Appendix D is provided.

SUADPS' financial information and control system functions for the fund status area are accomplished through the SUADPS Reports 21, 41, 42, and 47. The four Report 21s (Budget Reports) and the combination of Reports 41, 42, and 47 (Budget OPTAR Reports) contain the exact same financial status information but in different formats. The Budget Reports are designed for internal managerial performance assistance whereas the Budget OPTAR Reports are designed for external reporting requirements of fiscal compliance.

The Availability Cost Report 46 is a management-oriented report for ROV funds only. This report is a funds status report displaying ROV costs as a function of a ship's availability or refit. For each distinct period of time an individual ship is assigned for Submarine Tender Repair Work, ROV costs are accumulated. As an example, a Fleet Ballistic Missile Submarine on a 105-day operational cycle (70 days deployed and a 35-day refit) has, on the average, three to four refits per fiscal year. Therefore, in a squadron



## EXHIBIT 22 DAILY OR WEEKLY FINANCIAL REPORTS

- A. Report 21 Divisional Budget Report (Current FY)
  - Prior to distribution, the Stock Control Division reviews for large dollar amounts that could be erroneous. Reversals are prepared as necessary. Actions are annotated on the original and filed.
  - 2. Two copies to the applicable divisions as applicable with instructions for error reviews.
- B. Report 21 Department Budget Report (Current FY)
  - 1. Prior to distribution, the Stock Control Division reviews for large dollar amounts that could be erroneous. Reversals are prepared as necessary. Actions are annotated on the original and filed.
  - One copy is distributed to each Department Head as applicable for their review;
- C. Report 21 Commanding Officer's Budget Report (Current FY)
  - 1. Prior to distribution, the Stock Control Division balances the identified ROV funds with those identified on Report 46 Corrections Corrections are annotated on the original and filed.
  - One copy is provided to the Stock Control Officer, the Supply Officer, and the Commanding Officer for their review.
- D. Report 22 List of End Use Differences
  - 1. The Stock Control Division reviews the report for differences between obligated and expended amounts with emphasis on continuing services requisitions for increases or decreases to obligations. The original is filed for a later review against the Summary Filled Order Expenditure Difference Listings.
  - 2. One copy is provided to the Open Purchase Service Desk for balancing actions against the Open Purchase Log.
- E. Report 23 Detail List of Prior Fiscal Year Transactions
  - 1. Prior to distribution, the Stock Control Division reviews for large dollar amounts that could be erroneous. Reversals are prepared as necessary. Actions are annotated on the original and filed.
  - 2. Two copies to the applicable divisions as applicable with instructions for error reviews.



- F. Report 24 Message Report of Credits (AS/AS (FBM) Only)
  - 1. The Stock Control Divisoon prepares a message to Penort credits to Type Commanders and FAADC when thresholds are reached.
- G. Report 46 Availability Cost Report
  - 1. The Stock Control Division balances the identified ROV funds with those identified on the Commanding Officer's Report 21. Action are annotated on the original and filed.
  - 2. One copy is provided to the Supply Officer, Repair Officer, and Squadron Supply Officer for their review.



## MONTHLY OR YEARLY FINANCIAL REPORTS

- A. REPORT 21 Divisional Budget Report (Current FY)
  - Review, audit and distribute in accordance with daily or weekly financial report procedures.
- b. Report 21 Depart Budget Report (Current FY)
  - Review, audit and distribute in accordance with daily or weekly financial report procedures.
- C. Report 21 Commanding Officer's Budget Report (Current FY)
  - Review, audit and distribute in accordance with daily or weekly financial report procedures.
- D. Report 22 List of End Use Differences
  - Review, audit and distribute in accordance with daily or weekly financial report procedures.
- E. Report 23 Detail List of Prior Fiscal Year Transactions
  - Review, audit and distribute in accordance with daily or weekly financial report procedures.
- F. Report 24 Message Report of Credits
  - Review, audit and distribute in accordance with daily or weekly financial report procedures.
- C. Report 46 Availability Cost Report
  - Review, audit and distribute in accordance with daily or weekly financial report procedures.
- H. Report 20 Unfilled Order Summary
  - The Stock Control Division reviews the transmittal number and transmittal amount against the NAVCOMPT 2157 for both tender's and support units UICs in the current FY and 6 months of the prior FY.
  - 2. This report is then utilized to prepare the NAVCOMPT 2156 submission to FAADC.
- I. Report 41 Budget OPTAR Report NAVCCMPT 2157 for Supported Units
  - 1. The Stock Control Division reviews the current FY against the a applicable Report 21. Additionally, prior FY allowances and balances are reviewed for significant changes.



- J. Report 42 Budget OPTAR Report Reimbursable OPTAR NAVCOMPT 2157
  - 1. The Stock Control Division reviews the current FY against the applicable Report 21.
- K. Report 47 Budget OPTAR Report Own Ships NAVCOMPT 2157
  - 1. The Stock Control Division reviews the current FY against both the applicable Report 21 and the Report 46.
- L. Report 48 NSA Financial Summary
  - 1. The Stock Control Division balances this report against the NAVCOMPT 2157's and submits the information in accordance with Type Commander instructions.



composed of eight supported units, the Report 46 would show, as a minimum, twenty-four separate cost breakouts per fiscal year, reflecting each refit conducted by the tender. Exhibits 24 and 25 are provided as examples of Availability Cost Reports (Report 46) for Supported Units and Non-Supported Units, respectively.

Financial SUADPS Reports 20, 22, 23, 24, and 48 were not considered pertinent to the material presented in this thesis and as such will not be scrutinized further.

#### C. INTERNAL FINANCIAL REPORTS UNDER SUADPS

# 1. Submarine Tender Financial Management Reports

The only SUADPS report that is normally distributed to operational managers of the ship is the Budget Report or the Report 21. All other SUADPS reports are used either for external reporting purposes or within the Submarine Supply Tender's Supply Department for internal supply management purposes. The Report 21 applies to current fiscal year funds only and is available for management at three different levels with the command hierarchical structure. The Report 21 is designed for management at the Divisional, Departmental, and Commanding Officer hierarhical levels. Each Division acts as a cost center reporting to a Department Head who in turn reports to the Commanding Officer. Therefore, the successively higher level management reports are simply summarizations of the financial information pertaining to lower level cost centers.



EXHIBIT 24

Availability Cost Report for Supported Units

1980	CUR MO														
FISCAL YEAR; 1980	TOT OBL/EXP CUR MO	00.	00.	00.	00.	00.	00.	00.	00.	00.	00.	00.	00.	00.	00.
30 APR 1981	EXP CUR MO	00.	00.	00.	00.	00.	00.	00.	00.	00.	00.	00.	00.	00.	00.
REPORT	OBLIG CUR MO	00.	00.	00.	00.	00.	00.	. 00.	00.	00.	00.	00.	00.	00.	00.
AVAILABILITY COST REPORT	EXP FYTD TOT OBL/EXP FYTD	183,658.80	92,486.88	39,125.58	153,612.26	20,051.41	88,728.00	14,792.62	141,791.64	166,382.16	17,555.06	12,415.06	268.00	55,547.80	2,142.00
V05851 AVA	EXP FYTD TOT	111,501.02	59,128,76	31,723,46	121,592.49	16,543.96	70,451.44	15,624.82	138,431.65	150,621.66	8,727.06	9,422.56	268.00	59,544.29	2,117.00
	OBLIG FYTD	72,157.78	33,368.12	7,402.12	32,019.77	3,507.45	18,276.56	832.20CR	3,359.99	15,760.50	8,828.00	2,992.50	00.	3.51	25.00
AS36 ·	UIC	04712	05142	05144	05145	05149	05150	05192	05164	05703	20042	31755	20144	20203	20786
USS L YSPEAR AS36	REF HULL NO	AAA ASR 013	AAB SSN 661	AAC SSN 663	AAC SSN 664	AAF SSN 667	AAF SSN 668	AAG SSN 670	AAII SSN 673	AAI SSN 675	AAJ SSN 679	AAK TWR 001	AAN ACR 22	AQN SSN 689	AQP SSN 695



EXHIBIT 25

Availability Cost Report for Non-Supported Units

AB 1.15.E0	CLR	. 00	000	0 0	000	000	000	00.	03.	9 6	20-	000	L (0 ·	9 6	000	00.	000			000	0 0	00	000	00.	000		0.0	. 00	!	,			
FISCAL YE	OT OBL/EMP					:								1	;				!	-					!						f		
30 APR 1981	EXP. CUR. MOI	000	a c	o a	00.	9	, 0	000	0 0	, 0	00.	9		: 00		00.	000		00.	000	•	00.		00.	000	00	00.	000					
RI	oeligcur ma	00.	000	00	00-		00	00.	000	• 00	00.	00.		00.		00.	000	00	00.			00.	•00.	00.	000	. 00	00•	000			•		
VAILIBILITY COST REPORT	_101_08L/EXP_FYT0	36,633.11	7	37,441.81	124.81		1,739,10	4,123.94			42.00		. 695	223.	,002.	00.	673		,587	11.11.01		.114	505	75,021,89		1,101,82	. 400	384,241.34					
KOSBS1 AVAT	EXP. FYID_T	35,028,38	11.466.29	36,194.76	124.A1		1,139,10	40098094	23,869.16	178.63	42.00	41.64	695.3	0.8	941.0	000	-	1,246.6	10.587.49	21.956.24	203.84	4,097.27	100.040.00	70.632.85	17	1:101:89	œ.	341,273,53					
	OBLIG FYID	1,624.73	57.5	47.0	00.	0.	q ·	50.00	2,111.00	- ;		000		72.8	1.938-80CR	0 0	362.98	00.	00.	2 10		17.08	A19 93	89.0	18.0		1+314+64	42,967.81	4		-		
A536	016	01936	05151	05140	20347	05701	05110	20044	04713	03954	55444	20 4 50	05137	20203	20182	20.786	05120	01153	20064	05132	20659	54064	54069	54041	03364	05832	10902			Services and or of the Agent Marketon or any			
USS L YSPEAR ASS	REF HULL NO	ACGS 02	699 NSS	SSN 653	SSN 685	SSBN627	SSBND36	SSN 631	ACR 14	AG. 153.	2 ACC			889 NSS		569 NSS		130 33	NBS FF 1088 20 NBC AFC 1 05	SSN 639	CGN 27	FF 1069	FF 1074	FF 1045	CV 64	AOE 1	r	TOTAL					



The financial information in all three types of Report

21s is an output from the SUADPS Financial Master File with

the intention of indicating the current financial status of

the Division, Department, or total ship for managerial

decision-making requirements concerning resource allocations.

All three types of Report 21s, as update output reports,

display the financial information in a summary format of

opening and closing balances in the categories of:

- 1. Allocation
- 2. Obligations (outstanding)
- 3. Year-to-Date Expenditures
- 4. Gross Adjusted Obligations (cumulating)
- 5. Available Unobligated Balances

At the lowest operational level the Divisional Budget Report, in addition to furnishing the opening and closing balances as above, itemizes each input document processed during the update for the particular division that applies. Exhibit 26 is provided as an example of a Submarine Tender Repair Department's Machinery Division Report 21.

At the next managerial level, the Department Report 21 contains funds status summary financial information for each of its responsible Divisions. Exhibit 27 is provided as an example of a Submarine Tender's Repair Department Report 21. Note that the Divisional financial summary contained in Exhibit 26 is identifiable separately in Exhibit 27.

At the highest management level aboard ship, the Commanding Officer's Report 21 contains the funds status summary



EXHIBIT 26

Divisional Budget Report 21

		DIVISION BUDGET		REPORT FOR PERIOD ENCING 30 APR 1981 NAME 54 R2A SE	31IYPE_OPIAR	PIAR SOL
		ALLOCALION	OBLIGATIONS YEAR		GROSS ADJ CEL AVJ	AVAILABLE EAL
1	CL. BAL.	23,500.00	6,557.40	9,131,08	15,413,53	7,611,52
C/I DCCUMENT NO.	STOCK AP ART NO.	CF SCRIPTION UI	RI FC CG PRI BUIC	REF OTY UNIT PRICE	TOTAL PRICE	ADJUSTHENT
V0585103195471	X11 V0585103495477 5210002432933 X31 V0585103465431 7290006160109	CALIFFR, PICR EA DUSTPAN FA	C2 90 CC 90	9 30,36	273.24	
1						
			man de la companya de			
		ž :				
		ŧ				-
1				:		
	1	i				
	:				:	:
		:				
	4	5000				



EXHIBIT 27

Departmental Budget Report 21

	REPAIS	DEPARTMENT	PUDGET, REPORT E	DEPARTHENT_BUDGET, REPORT FOR PERIOD_ENDING 30	APR 1981 TYP	TYPE CPIAR S+E	
OIV. CODE & NAME		ALLOCATION	OBLIGATIONS	YEAR TO DATE EXP	GROSS ADJ GEL	AVAILABLE BAL	
A? RO SE	OP. PAL.	A,500.00	1,042,35	646.47	1.594.92	6,80°.18	
AB RB SC	Or. 9AL. CL. RAL.	5,000,00	160.28	716-19	816.47	4.123.53	
SI RI SE	OP. HAL.	24,000.00	11,656.06	12,287.57	23,543.63	56.37	
52 R5 SE	. 0P, HAL, CL. HAL.	22,000.00	8,659.09 8,659.09	10,665.42	19,324,52 19,329,28	2.675.48	
EN RZA SE	OP. PAL.	23,500.00	6,557.40	8,9°6,13	15,413,*3	8.086.47	
ES P29 S5	02. AAL. CL. BAL.	11,003.00	1,227,18	4,459-13	5,735.31	19263.65 59740.65	
SE R3 SE	OP. BAL.	00°00°6	2,425.73	4,540.88	6,955.61	2,033,39	
57 R4 SE	07. BAL.	3,006,00	627.10	1,256.67	1.193.77	1,206,23	
SA RE SE	OP. BAL.	12,000.00	4,312,89 4,312,89	4,675.51	8,989.40	3,011.60	
59 R7 SE	OP. SAL.	24,000.00	18,348,59	1,067,98 1,047,98	15,416.57	#####################################	
6F 100ROV	OP. RAL.	000	00.	000	00.	00.	
DEFAPTMENT TOTAL	OP. PAL.	142,000.00	54,542,67	49.565.33	104,154,43	37,845.27	
		management make in the first fact.					



financial information for all the tender's Departments in both fund categories of S&E and ROV resources. Additionally, each supported unit's financial status is provided for informational purposes only since the Submarine Tender's responsibility is limited to accounting and reporting.

Exhibit 28 is provided as an example of a Commanding Officer's Report 21. Note that the Departmental financial summary in Exhibit 27 is also identifiable separately in Exhibit 28.

# 2. Supported Unit's Financial Management Reports

Each supported unit is responsible for the submission of advice of its financial obligations either directly or, if deployed, by message report to its parent Submarine

Tender. The Submarine Tender, as the squadron/group accounting activity, is responsible for the actual accounting and reporting requirements as a service to its supported units. However, financial management and control responsibilities are retained by the Submarine's Commanding Officer. To assist in this responsibility, the Submarine Tender furnishes the Submarine its own individually tailored Budget Report 21. Its format is identical to that of a Submarine Tender's Divisional Report 21. Exhibit 29 is provided as an example of a Supported Unit Report 21.

### D. SUMMARY

This chapter discusses in detail the basic level SUADPS financial management aids and reports available by design



Commanding Officer Budget Report 21

•	!		DAME UTTACKTO	OUGSEL REPORTER	IDAING UTTACKYS BURNEL KEPUH LEUK PERLOD ENDING 30 APR. 1981	IPR 1981	
DEPT/UNIT	} †		ALLOCATION	OBLIGATIONS	YEAR TO DATE EXP	GROSS ADJ CBL	AVAILABLE BAL
CENTAL	S+E	OP. BAL.	7.100.00	2,430.58	2,593.83	5,024.41	2,075,59
ENGINFER	**	OF. BAL.	172,672,00_	36.889.86	103,527,20	140,427.06	32,244,94
DIAMOND	S+F	OP. PAL. GL. PAL.	6+500.00	2,080,92	1,519,75	3,600.67	2,855.33
CORESCRVF	S.	. OP. BAL. CL. AAL.	30,728.00	000	000	000	30,728,00
XO SE	(2) (4)	OF. NAL.	7.000.00	400.26	1,050,17	1,490.43	5+505-87
151 LT.	S + E	OP. BAL CL. PAL.	00.002.69	21+520+12	47,450.23	69,247.03	329-65
MEDICAL	S + F	OP. PAL.	20,000.00	70347.82	11,554,47	18,902,29	1,057.71
COMM	S+E	OP. HAL.	18,000.00 18,000.00	3,277.03	6,975,96	10,290.57	7,747,01
OPERATION SAF	۳.	OP BAL. CL. MAL.	4,500.00	591.57	2,916.PE 2,916.RE	3,608.43	851.57 891.57
RFPAIR	S + F	OP. HAL. CL. MAL.	142,000.00 142,000.00	54,542.67	49.511.96	104,154,53	37.845.37
SUPPLY	ري الا.	0P. 3AL.	124,000.00	57.091.51 57.0P1.51	48,260.51	105,342,02	28,657,58
CPO MESS	e	OF. PAL. CL. SAL.	4.030.00	741.70	1.024.26	1,775,96	2,224.04
WEPE REP	i + +	OP. PAL.	29,000.00	7,227.12	4+758-03 4+765-03	12,085.15	16,914.RE 16,907.BS
ADM 1N	Li *8	OV. BAL. CL. RAL.	21,000.00	8,034,32 8,034,12	4+076.PE.	12,111,17	8,886.63
OWN SHIP S.E TOTAL	FOTAL	OP. RAL.	666,000.00	202,765.48	285+180-08	487,945.56	178,054.44 176,878m95
ENGINEER RCV(F)	RCV(F)	0". 84L. CL. AAL.	6A,000.00 68,000.00	52,615.80	6.148.00	59.064.80	E 9 3 2 5 2 0



IST LE	ROY(E)	CL. BAL.	1,000.00	00.	000	000	1,000,000	:
CCMP R	ROV(P)	OP. NAL.	3.000.00	677.99	1.560.16	2,238,15	761.8% 761.PS	
REPAIR	ROYAPI	CL. BAL.	205,000,00	194,841,54	129,581,51	324,750.05	19.421.05CR 19.750.05CR	
WEPS REP R	ROV(P)	OP. FAL. CL. BAL.	9,000,00		000		9.000.00	
ACHIN_ A	ROXCE)	CL. BAL.	203,000.00		.00	000	202.000.00 202.000.00	:
ROVI	ROV(P)	OP. PAL. CL. 9AL.	117,000.00	77.836.20	37,059,44	114,895,64	2+164.26 2+104.36	
TAY R	ROV.CEI	CL. BAL.	158,000,00	1180183044	62,990.83	181-174-27	23+174-27CR	:
INN SHIP BON TOTALLP)	TAL(P)	Or. PAL. CL. BAL.	864,000,00 864,000.00	444,155,97	237,639,94	681,795,91 682,122,91	182,204.C5 181;8?7.05	
HAN SHIP TOING OWN PROG.	ONN PROG	CL. BAL.	1,530,000.00	616.921.15	522,820.02	1.1169,741.47	360°256*53	
REPAIR R	ROV(S)	OP. BAL.	5,000.00	734.64 734.64	3,607.87	4,342,50	657.50	
HN_SHIP_ROX_IDIALISE	TALISL	CL. BAL.	5,000,00	734.63	3,607.87	4,342,50.	023728	:
UPPORTEO UNITS		OP. AAL.	80,000,00	33,744.39	22.945.04	56,695,06	23,304,94	
05112 . \$	S+r	OP. BAL.	89.000.00	20,252,23	33,267,73.	53,519.96	35,480.04	† :
8 91160	S+r	-	112,000,00	36,715,53	56.868a12 57.567.06	93,282,65	254116435	
05145	S+E	OP. BAL.	128,000.00	24.210.06	63.881.92	88,091,98	39.908.02	



1 1		COMMAND	ING_OFFICER'S_BI	IDGET REPORT FOR PE	COMMANDING OFFICER'S DUDGET REPORT FOR PERIOD ENDING 30 APR 1981	R 1981	
05149	ν. 	OP. RAL.	103,000,00	796.43	57.35	853.78	102,146.22
05150	3.5	OP BAL	118,000.00	45,486.71	31,417.29	76,904.00	41,09£,00 41,05£,00
05152	3+6	OP. RAL.	107,000.00	37.441.25	37,126,95	74.568.20	32.421.80
05154	S + S	OP. PAL.	89,000,00	51,513,73	15,814,60	67,328.23	21.671.67
95723	\$46	OP. PAL.	128,000,00	62,055.00 62,055.00	59,788.0A 60.952.95	122,507,95	6.156.92
200,42	S + S	OP. BAL. CL. PAL.	98,000,000	32,038,44 32,038,44	39,488.44	71,526.88	26.472.12
20144	\$ S	OP. PAL.	140,000,00	74,729,49	289143944	102,462.93	37,517.07
26203	S .	OP. PAL.	95,090,00 85,090,00	26,150,52	43,622.30	69,172.82	15,227,18
20782	» د	OP. BAL.	P0.000.00 R0.000.00	78.00	F F F P 9	84.23	79,515.67
20764	Ø €.	OP. BAL.	110,000.00	20.439.22	65.080.84	85.520.06 85.520.06	24,475,94
20785	3.	CL. PAL.	80,000,00	57,571,12	474.47	58,045,59	21,954.41
55739	\$ • F	OP. PAL.	00.000.00	63,132,18	2.751.12	65,883.30	24,116,70



EXHIBIT 29
Supported Unit Budget Report 21

Division where   Division   Division where   Division   Divis			USS I YSPEAR ASS		V05851		÷ (	·
		manus d'aministra de manus quantitativamente describirativamente de la constanta de la constan	DIVISION BUDGE	I REPORT FOR DE	RIOD ENDING 30			
011 OCCUMENT NO. STOCK/PARY NO. DESCRIPTION UT RI TC CG PRI BUIC REF 017 UNIT PRICE TOTAL PRICE ADULTS TO THE TOTAL PRICE TOTAL PRICE ADULTS TO THE TOTAL PRICE TOTAL PRICE ADULTS TO THE TOTAL PRICE TOTAL PRICE TOTAL PRICE ADULTS TO THE TOTAL PRICE TOTAL PRIC		96.	DBI		18 IO DAIE EXP	GROSS ADJ 081 \$6,695.06	AMAILABLE BAL	
VOT	DOCUMENT NO.	STOCK/PART NO.	SCRIPTION UI RI	1	REF	PRICE		
REPORT 21 01FF 1111 PAGE 141	V0471203080297 V0471203380638 V0471203450723 V0471203510850 V0471203510850	5120002401412 1 8020008897417 6515005600009 6505002998740	BRUSH VARNIS EA BLADE, SURGIC PG BACITRACIN A TU		11 2 0 0 1 1			
RSPORT 21 CASE 114								
REPORT 21 OUTF 1114 PAGE 141								
RGPORT 21 Out F 1111 PAGE 141				•			Market	i
REPORT 21 DATE 1114 PAGE 141		:						
REPORT 21 DATE 1114 PAGE 141							٤.	
REPORT 21 DATE 1114 PAGE 141			:	i	: 1			
REPORT 21 DATF 1114 PAGE 141		•						
21 DAYF 1114 PAGE 141								
		İ						
		!						



for utilization by operational managers in the field. The next chapter will review the utilization of the SUADPS system in its actual implementation in an operational fleet environment.



# V. AN ASSESSMENT OF SUADPS FINANCIAL OPERATIONS

The emphasis of this chapter is directed toward a process evaluation of SUADPS to determine whether the objectives of its financial information and control theory and design were in keeping with actual implementation results.

The purpose of any information system is to provide data in a format for subsequent interpretation to reduce the uncertainty of a situation. A management information system (MIS) as defined by Kenneron is:

...an organized method of providing past, present, and projected information relating to internal operations and external intelligence. It supports the planning, control, and operational function of an organization by furnishing uniform information in the proper time-frame to assist the decision maker. [Ref. 10, p. 91]

In conjunction with this definition, a financial information system would be of a slightly narrower scope but with the same essential elements. In this case, the organized method of providing the information within the SUADPS system is through the SUADPS operational procedures and the structural aspects of the SUADPS financial information network. A financial information and control system in the organizational context contributes to management in the performance of their responsibilities. Mader propses that "to aid decision making, an information system should provide the right information, to the right person, at the right time, in a cost-effective way" [Ref. 11, p. 6].



The right person requirement did not appear to be a problem in the SUADPS operational environment. Each person interviewed was fully aware of the existence of the financial system and the associated Budget Reports that pertain to their job assignments. The three-level hierarchy structure of the Budget Reports were found to follow the chain of authority and responsibilities. This combined with the effective distribution system of the Budget Reports, ensured that the right person obtained the financial information in the actual implementation. However, serious concerns were voiced concerning the information system requirements of the right information and at the right time. These reservations were judged to be major shortcomings and will be highlighted in detail. Accuracy and timeliness are recurring important concepts in the literature of financial information and control systems. Nichelson supports this idea by saying, "To the extent that MIS techniques can present timely and valid facts and also facilitate evaluation of pertinent information, the MIS...pays its way in contributing to the increased effectiveness of business decisions" [Ref. 12, p. 110]. Herein lies the other reason, that of Managerial Performance assistance, for the SUADPS Fund Status Reports.

### A. ACCURACY AND TIMELINESS

The mechanics of the SUADPS financial function were found to be highly interdependent. Prior to the financial documents even becoming an input to an update process, the



data collection and preparation procedures are extensive. Herein, the manual interfacing required even a routine document to change hands in excess of twenty times and pass through four separate divisions. Improper coordination through these procedures of authorization, screening, keypunching and numerous validating and recording actions could easily negatively impact on the ultimate accuracy and timeliness of the Budget Report information. The significant processes affecting the timeliness were found to be those involved with keypunching and manual holding files awaiting an actual batch update. Interviewees assigned to jobs within this document flow process confirmed that coordination problems had at times resulted in significant delays and lost documents. However, they were quick to point out that reconciliation procedures ultimately resolved 99 percent of these inadequacies.

The validation phase of the SUADPS update process also contributes to timeliness delays and hence accuracy of financial information. All input data are subjected to in excess of three hundred separate software validation checks as discussed in Chapter IV, Section A. One interviewee estimated that an average of 15 percent of input documents failed to process in every update, thereby finding their way to either the suspended transaction or transaction error listings. Once this action occurs, extensive manual interfacing is required to research the source document,



analyze the error condition, make the corrections, and resubmit the document through the data preparation process.

Several Stock Control Officers judged that the normal backlog of both suspended and error listings in various degrees of correction at any one point in time averaged between five and seven. The implications of these document errors would be that an additional one to two weeks beyond normal processing time frames would be required for the eventual reflection on the financial records. Additionally, errors once corrected and resubmitted are not precluded from erroring out again for yet different validation deficiencies.

In actual implementation, document errors that meet all the automated validation criteria, even though they are still in error (i.e., miskeypunched requisition number, quantity, price, etc.), are very rarely initially diagnosed. The volumes of input and the shortage of manpower were found to prevent comprehensive reviews of the processed documents listed in the transaction ledgers or information listings. Reconciliation procedures were relied upon to identify and correct these types of errors. A managerial option of specifying a certain high money value threshold for enumeration on the information list is available to the SUADPS system operator. By using this option, a more thorough review of probable errors from miskeypunched quantities and prices can be effected. Most tenders used this option with a threshold of \$1000 in an effort to identify and limit errors of the



larger magnitudes. In practice, however, the comprehensiveness and dedication to this review were highly dependent on
the manpower and workload levels in existence. Reconciliation procedures could once again be relied upon to subsequently
correct these errors at a later date.

The financial information and control system is dependent on computer hardware and as such is not immune to the numerous associated problems of any basic computer system. However, the SUADPS system is unique in its dependence on an AN/UYK-5(V) (UNIVAC 1500) system possessing obsolete 1950's technology. Automated Data Processing personnel related narratives of extensive maintenance and repair efforts to meet operational commitments. They also reported manufacturer maintenance and repair part support as very limited and in some cases non-existent. The computer hardware and hence the financial information and control system was often temporarily out of service. This problem was even more pronounced aboard the USS PROTEUS which was operating from a deployed overseas homeport.

The computer system time sharing operation aboard a Submarine Tender was also found to cause a significant problem in actual implementation. Although SUADPS is the major customer, this time sharing system can cause numerous coordination and priority conflicts on an already overloaded and aging computer system. The ever evolving increasing requirements currently necessitate the system to operate in



excess of design criteria for twenty-four hours per day and seven days a week. This strenuous operational schedule further aggravates hardware maintenance and repair problems which ultimately negatively affect the accuracy and timeliness of SUADPS financial information and control aspects.

Still another factor affecting the accuracy and timeliness of SUADPS financial information is the frequency of the update process. As explained in theory by Chapter II.C, SUADPS financial updates are not automatic but are scheduled on a demand basis. A daily update does not mean that a daily update occurs every day of the year. On the average, Submarine Tenders process three daily and one weekly update per week. Although this goal of three daily updates per week is minimum by COMSUBPAC, computer hardware problems and other administrative or operational commitments do adversely affect this schedule.

A random sample conducted on update records of two Submarine Tenders revealed processing time frames for external requisitions and internal issues of 14, 14, 20, 21, and 41 days. This measure was obtained by averaging Julian dates of all requisitions and issues within an update and subsequently subtracting this average from the actual date of the SUADPS daily update. Althouth the above represented a small sample, the average time period obtained of 22 days was judged reasonable by several SUADPS personnel interviewed.

Using this 22 day time period as a rough measure of the numerous deficiencies noted previously above, the design



in conjunction with the implementation aspects of SUADPS as a financial information and control system can be evaluated as poor for the purposes of internal management needs. In further confirmation, this same poor evaluation was also expressed in the interviews of Repair Part Petty Officers (RPPOs).

## B. RECONCILIATION

Reconciliation within a SUADPS operation is defined as the matching of every individual divisional requisition at the user level to the official accounting activity. As previously discussed above, reconciliation processes are paramount to the accuracy of SUADPS financial information and control system. Many design and implementation deficiencies rely adamantly on reconciliation procedures for error identification and correction. NAVSUP-P522, the bible for SUADPS procedures, mentions this extremely consequential financial function in a very limited scope and with the emphasis on inventory control accuracy. This omission appears to be as a result of SUADPS objectives for minimum manual and maximum automated policies. The introduction to financial management and miscellaneous management reports in NAVSUP-P522 [Ref. 3, p. 7-3] specifically advocates that "SUADPS has eliminated the requirement for manual record keeping and has also eliminated most of the need for manually preparing financial reports. No financial logs, ledgers, or records must be maintained since all such records are



maintained by the computer." At SUADPS's inception in 1969, it seems likely that this view may have been applicable, but in today's environment of ever-increasing volume saturation and intricate financial management requirements, manual ledgers are a necessity. COMSUBPAC has realized this eventuality by requiring OPTAR Logs and monthly reconciliation processes. This resultant dual manual and automated financial information and control system serves as a check and balance relationship.

The manual system consists of nothing more than a manual Requisition/OPTAR Log at the divisional level for purposes of financial and requisition status recording. As requisitions are prepared and submitted, they are logged in the Requisition OPTAR log with the obligational amount being deducted from the previous remaining balance. The Requisition OPTAR Log is usually updated nightly and is the most current indication of actual financial standing of that Division or Supported Unit, provided that the Log is maintained properly and reconciled. Exhibit 30 is an example of a Requisition/OPTAR Log.

Keypunching errors, double entries, false charges, price adjustments, and requisition cancellations are but a few of the numerous possible adjustments reflected on a Budget Report 21 which require corresponding adjustments to the Requisition OPTAR Log. Additionally, considering that a SUADPS organization is processing thousands of requisitions/receipt documents weekly, some are bound to be delayed or



disappear for one reason or another. As an important part of the reconciliation process, corrections must also be made for requisitions which are listed in the Requisition/OPTAR Log but have to date failed to appear on the Report 21, or vice versa, after a specified period of time. The essence of the reconciliation process is to update the Manual Requisition/OPTAR Log with modification information available from the SUADPS files and to advise the Stock Control Division Officer of obligational transactions which are contained in the Manual Requisition/OPTAR Log but not yet reflected in the SUADPS financial files.

Upon completion of the requisition by requisition reconciliation, all debt/credit adjustments are totaled and batch posted to the Requisition/OPTAR Log. Then a reconciliation balance sheet memorandum report containing the list of (missing) requisitions not listed on the Report 21 and a list of other errors noted is prepared by the Reconciliation Division RPPO and submitted to the Submarine Tender Stock Control Division. This division, in turn, is responsible for the thorough research and corrective action as appropriate.

From a broad perspective, the transmission of requisition advice from the user to the Stock Control Division on a Reconciliation Report represents a second chance to update the SUADPS files. However, in this situation the basic mode of operation is a manual system attempting to update a mechanized system. Considering the basic intent behind



USS DIXON AS-37	XON	AS-37					REQ	UISITIO	REQUISITION /OPTAR LOG	901 2				
Sin	WORK	JSN	USN JULIAN LERIAL COS	114± COS	STOCK NO.	DESCRIPTION	FRI FC UI	UI OTY	2. 2.2.2.9 2.0.2.9	TOTAL PHICE	15 FROM REPORT 21 WONTHUIJOTY,AMT	ADJŲSŢMENT	AVALABLE	# 153 6.25 6.25 6.25 6.25 6.25 6.25 6.25 6.25
20			METANCE	8500	BALANCE BROWGHT FORWARD FROM PREVIOUS PAGE	OM PREVIOUS	PAGE							
			9274 1100	8	157 GTR ALLOCATION 1 0CT 79	10N 1 0CT 79			20 000 01				10000 00	1
			9374 67	10,10	6701 99 OP XEROX	RENTAL	13 M	EA 09999	32025	500 5	SEE 9297- 4719		9.500 00	
			1214 67	102 96	9274 6702 96 8010-00-28-7744	PAINT	13 MC GL	01 TE	5 51	55 10			9,44440	T
			1274 67	03 96	9274 6703 96 8010-00-242-208	2-2089 THINNER	爿	CN 5	2 00	30			943440	1
			1276 67	6704 9N	8603-146-00-9226	EKEAKER	06 MB	£4 3	13 7.0	37 50	SEE 9286- 6714		9.397140	
		_	9277 67	2660	6705 92 6145.00.110-2272	10-2272 CABLE	C. MINET	130	3	1500			9322 40	
		3	9278 (7	56 90,	(706 99 EFA-DE11 4 HOWELL	PAPER	CIE MC	EA	344 00	349 00			8,978 40	
			9278 67	19 19	6707 9 : MVO-SUFATART	VAKIOUS	13 MC	EA L	200 30	300			8,778 40	
		7	13 6729	P8 30	6708 49 0 P. GRATENS EILL	SWITCHES	CEMC	EA	25000	25676			8:28 40	
	·		1381 67	09 11	9281 1709 11 0102-15-03-4840 1348M CARDS	1348M CARDS	13 410	8X	4 40	35 20			2 443 20	-
			2836	110/40	9283 6710 40 1355-01-031-7628 VALVE	VALVE	06 Y6	EA 2	448CO	N/C			8 44320	
			1284 67	11 01	9284 6711 01 0550-18-485-0014 P-485	p-485	(3) A	£2 4	77	2/2			8 443 20	
			1284 67	12 gN	9284 6712 9N 5835-00-124-8607 TAPE SOUND	TAPE SOUND	OG ME	EA	32000				8,193,20	
			1286 67	13 2F	9286 6713 2F 5845-00-893-1053 HYFRURIME OG	HYPRUPHENE	20	EA	17500	NK			8,193,20	-
		-	12% 6	114 111	92% 6714 111 (405-00-818-3897) LINIOMETERS OF ING EA	PLINOMETERS	06 ME	EA 2	6500	130 00			8,063,20	
		2	9240		CANCELLATION ANS 8276-6704	15 8276-6704				37 150			8 100 70	
		-7	7293 6	11696	9293 6716 9G MVD-SEKNMAKT	VARIOUS	13 MC	- AH	300.00	3000			7,800,70	7
			9293 6717		14 4470-00-107-2265 DISC ASSY	DISC ASSY	DE MREA	EA 2	88	176 00			712470	
			9294		ADDITIONAL 1 STCTR ALLOCATION	R ALLOCATION		-	2,00000				01/123/6	+
			9 968	718 96	6718 9G BYA-GRAYEAR EIEG 200W GEN	200W GEN	13 MC	- -	425 40	425 40			919930	
		-	9297 6	119 1H	6719 1H 4470-00-267-9178 VALVE BUSHING CG ING EA	YALVE BUSHING	CC IMS	EA 3	22 50	27 20			9 131 30	
		Ĭ			Appirional ochie Alian 9274-670	A110N 9274-67	Į,	-		50000			8,131 20	1
			1399 6.	130 11	9299 6720 11 0108 LF-501-2508 1250-1	1250-1	3 MC	3	1700	8500			8 546 80	
			1301 6	72190	9301 6721 90 7220-00-543-7157 TILE VINYE	TILE VINYL	13 MIZIBX	5X	12 16	36 48			8,51052	1
			9301 6	722 90	9301 6722 90 7510-00-266-6710 TAPE PRESS	TAPE PRESS.	13 MC RG	80 6	64	384			8 504.48	
21			MALANCI	CARF	BALANCE CARRIED FORWARD TO NEXT	NEXT PAGE				3,493,52			8,50448 PAGE M	10E 74
: 1.5:	6166-	56 4 C /* 614 4 L L COB 4 5 3 4	1111		The state of the s						22 O2 3 4 OUARTER FY 80		ALLOCATION: 12,000.00 (1)	

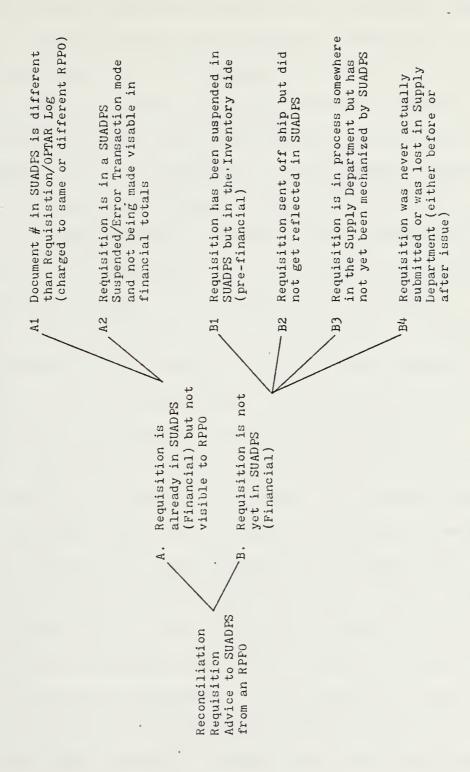


SUADPS, this assistance would seem to be heading in the wrong direction. While the RPPO can advise about missing transactions from SUADPS, the RPPO cannot normally provide real advice as to why the transaction is not reflected in SUADPS. Exhibit 31 provides a graphical display of some of the reasons behind these missing transactions. Of the six major reasons associated with reconciliation mismatches, the first three (Al, A2, and Bl) represent processing problems by the Stock Control Division, and the last three (B2, B3, and B4) represent potential major supply problems to the Supply Department. In essence, the SUADPS financial reports only carry transactions which have successfully completed processing and the reconciliation process requires RPPOs to advise (in some cases) time and time again of the Supply Department's failure to completely process a requisition. This advise is furnished without the aid of the computer and can be quite aggravating to the RPPOs.

One interviewee, in describing this reconciliation process, called it "a necessity but a nightmare." Still another interviewee interpreted the process as "running a ten million dollar business utilizing stone age checkbook accountint." Further review indicated that the nightmare connotation referred to the sheer magnitude and excessive manhours involved in the reconciliation processes. An average Submarine Tender has an accounting structure which breaks out costs into 100 to 140 separate accounts. It then follows that in



EXHIBIT 31 Unmatched Reconciliation Problems





excess of 100 Requisition/OPTAR Logs require individual matching of every requisition against the Divisional Budget Report 21. This in itself is a difficult problem but is further complicated by the existence of 40 to 50 different people of varied training and skills within the SUADPS system. These 40 to 50 personnel are called Repair Parts Petty Officers (RPPOs) and act as divisional or departmental representatives to the financial information and control system. Training and understanding of SUADPS system procedures for these RPPOs is a responsibility of the Supply Department's Stock Control Division. If the RPPOs fail to properly reconcile, the errors will never be identified or corrected, thereby affecting the accuracy of the financial records.

Since no official procedures or guidelines concerning reconciliation processes are promulgated by NAVSUP or NAVCOMPT, each Submarine Tender is responsible for developing its won specific procedures. A survey of all three Submarine Tenders disclosed that each had vastly differing processes. Even the reconciliation time frames varied dramatically. One tender attempted weekly reconciliations, another directed monthly reconciliations, and the third indicated that reconciliations were conducted only when it was felt a significant accuracy problem had occurred. In the opinion of the author, scheduled consistent reconcilitation efforts are the key to accurate fiscal records. However, even this consistency is frequently interrupted in actual implementation to meet



temporary divisional operational commitments (particularly where priority repair of strategic deterrent submarines is involved). Additionally, supported unit reconciliations have to be tailored around deployment schedules.

### C. FINANCIAL INFORMATION USEFULNESS

The distribution and usage of the Report 21s varied among the Submarine Tenders. One tender only distributed the cumulative monthly Report 21, explaining that the RPPOs became very confused when they received Reports 21s from every update. The other tenders distributed Report 21s from every update to the RPPOs, as per SUADPS design.

Interviews with Divisional RPPOs indicated that in general they perceived the SUADPS Budget Report 21 as useless, worthless, frustrating, and difficult to understand. The quality of SUADPS financial information, due to problems of accuracy and timeliness as previously discussed, left a significant attitude of skepticism by the operational managers. Divisional managers tended to rely on their personal Requisition OPTAR Logs for pertinent managerial financial data, often ignoring SUADPS Report 21s. Other research indicates that this problem is not unique to Submarine Tenders but exists Navy-wide.

Most existing official Navy Accounting systems report information about fund status. This fund status information often reaches management, particularly at the department levels, too late to be useful and is sometimes inaccurate. Consequently, reliance frequently is placed on unofficial systems and memorandum records for essential financial information



that cannot be obtained accurately or on a timely basis from official systems. This results in the duplication of accounting functions and reporting. It also results in the danger that key decisions may be made on information supplied by systems that have not been reviewed for adequacy of controls that insure reliable reporting. [Ref. 13, p. 2]

For managerial control purposes, SUADPS Report 21s are of little worth due to the absence of standards. The very essence of any control process involves variance analysis about a standard. However, the SUADPS financial information and control reports designed for just such management control assistance fail to possess any standards. Russel Ackoff defines control as

The process of control involves four steps:
(1) Predicting the outcomes of decisions in the form of performance measures, (2) Collecting information on actual performance, (3) Comparing actual with predicted performance, and (4) When a decision is shown to have been deficient, correcting the procedure that produced it and correcting the consequences where possible. [Ref. 14, p. 112]

The mission of Submarine Tenders is both resupply and repair. However, these service-oriented outputs, although difficult to measure, do not have standards for effectiveness for control with the SUADPS Budget Report 21s. In implementation at the Divisional and Departmental management levels, little effort is made to match financial costs to services rendered.

At the Commanding Officer and Squadron Commander level, simple standards of performance were found to be used as management aids to compare with financial resource usage.

The standards were expressed as a percentage of funds spent



over time. As an example, funds of \$100,000 were allocated at the beginning of the fiscal year for one quarter or ninety days of operations. If a management review is required on the 72nd day of the quarter, then the standard would be 72 divided by 90 or 80%. If funds of \$84,300 had been spent as of this management review, then the comparison of 84.3% of funds spent to the time-elapsed standard of 80% would indicate that funds were obligated above standard by 4.3%. Management actions would then be to control resource allocations by limiting obligation rates until spending was on target with time standards. In the opinion of the author, these are crude straightline input standards which make no allowance for output effectiveness but at the very least are something with which some control can be accomplished. Since the Budget Report 21s do not meet the managers' needs for these purposes of measurement and control, separate reports are used inactual operational implementation. Managerial financial control manual reports from two separate Submarine Tenders are provided in contrast to the Report 21 formats. Exhibit 32 is an example of an actual Commanding Officer Control Report while Exhibit 33 is an example of an actual Squadron Commander Control Report. It is interesting to note that financial information status from both the SUADPS automated reports and manual Requisition/OPTAR Logs are reflected on these control reports. On these local management reports, the financial information from SUADPS automated



# Commanding Officer Financial Control Report

RPT. NO.: 06/3 TIME ELAPSED: 98.7

FROM: SUPPLY OFFICER, TO: COMMANDING OFFICER,

SUBJ: SHIP'S DEPARTMENT BUDGETS; STATUS OF

ST.OWS;

FOI																	
THE STATUS OF THE SHIP'S DEPARTMENT BUDGET OPTAR WAS AS FOI	LAST REPORT VERIFIED	18 JUN 1981	JUN	<u> </u>	20 JUN 1981	JUN	JUN	16 JUN 1981 *	16 JUN 1981 *	20 JUN 1981			19 JUN 1981	19 JIM 1981			18 JUN 1981
MENT BUDG	PERCENT	8.96	94.6	97.4	94.5	92.5	9.96	97.3	82.0	98.6		93.3	84.7	98.0	86.2	88.7	63.3
SHIP'S DEPART	ENDING OPTAR BALANCE	. 1,293.63	2,669.52	273.92	703.03	14,318.77	5,392.09	1,378.24	10,876.36	983.44	18,990,00	58.862.22	488,969.30	4 909 00	493,878,30	552,740,57	30,027,46 63.3
STATUS OF THE	ENDING REPORT 21 BALANCE	1,848.43	. 10,276.67	4,334.95	1,598.07	56,539.40	37,669,70	1,378.24	20,766.12	8,620.67	18,990.00	172, 168, 04	875,478.91	50.862.89	926.341.80	1,098,549,84	47,332,20
THROUGH 22 JUN 1981 THI	FYTD EXPENDITURES	25,243.63	32,894.37	9,107.52	5,294,25	104,553.35	146, 601.75	43,236.05	30,341.27	108,395.71	00	531, 236, 79	862,417.76	190,013,37	1,052,461.13	1,583,697.92 1.098.549.84	9,260.39
	OUTSTANDING	31,307.94	5,828.96	2,957.53	1,807.68	58,257.25	53,028.55	32,685.71	12,642.61	115,593.62	00	321, 595, 17	1,668,103.33	208,093,74	1,876,197.07	2,197,792.24	27,407.41
PERIOD 17 JUN 1981	AUTHORIZATION TO DATE	58,400.00	49,000.00	16,400.00	8,700.00	219,350.00	237,300.00	77,300.00	63,750.00	232,610.00	18,990,00	1,025,000,00	3,406,000.00	449,000.00	3,855,000.00	4,880,000.00	84,000.00
1. FOR THE PERIOD	DEPARTMENT	ADP	MEDICAL	DENTAL	NAV.	RUPAIR	ENGINEER	WEAPONS	DECK	SUPPLY	00	SUBTOTAL	REP. (ROV)	RFP. (ROV-S)	SUBTOTAL	SHIP'S TOTAL	CSS3

<sup>\*</sup> NO CURRENT REPORT 21 SUBMITTED FOR THE WEEK

COPY TO: DEPT. HEADS 12P

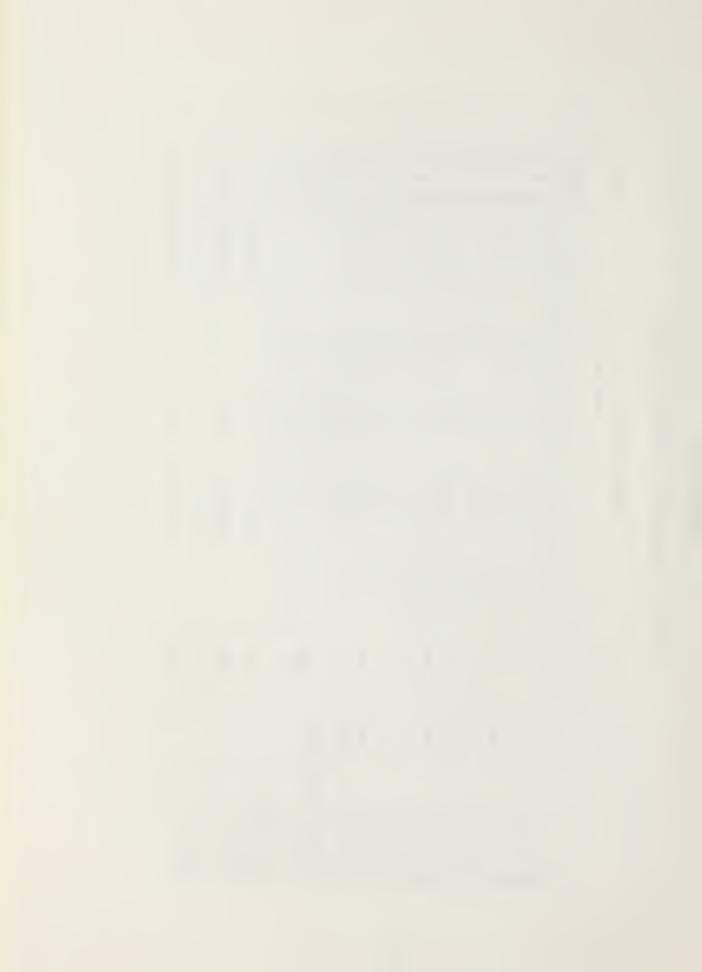


EXHIBIT 33

## Squadron Commander Financial Report

CONTROL SHEET FOR 2157

				TO THE SHEET TON	101 TO 101			Time Ei	Time Elapsed 66%
	Reporting Ma	Month JAN	1		Fisca	Fiscal Year 82			
	Total	S	Э 9		Angele and		D L R'S	PERCENTAGE	TAGE
Unit	Allocation	Ailocation	Boat 2157 (MSC)	MECH 2157	ALLOCATION	BOAT 2157(MSG)	MECH 2157	S&E	DUR
Supported Unit	761K	196K	156,963.21	126,182.70	265KK	110,008.00	29,741.00	86%	42%
								%+9	11%
Supported Unit	. 383K	165K	106, 308. 84	92,101.90	218K	140,799.00	82,256.00	56%	38%
Supported Unit	333K	158K	106,072.44	95,851.75	175K	80,171.00	27,230.00	%19	46%
13								61%	16%
Supported Unit	134K	114K	81,259.96	68,979.36	20K	709.00	-0-	71%	11%
	7110	3000						61%	0%
supported that	711K	1208	101,578.10	61,367.48	ВЭК	18,322.00	16,367.48	81%	22%
Supported Unit	360K	170K	152,586.68	119,713.12	190K	126,563.00	37,544.00	306	67%
10								70%	20%
Supported Unit	267K	192K	190,990.00	97,173.94	75K	50,952.00	13,150.00	%66	63%
								51%	18%
Supported Unit	333K	1 38K	92,309.64	88,191.15	195К	80,250.05	44,441.00	219	41%
Supported Unit	364K	159K	73,359.26	60,288.76	205K	169,984.00	51,216.00	295	332
50								38%	25%
Supported Unit	250K	1,418K	1,061,428.13	809,850.16	1,428K	777,758.05	301,945.48	75%	275
		1108	•	1	140K	8	t	57%	19%
serial Supported units	3,096K	100	33 023 03	60 100 27	;	2		63%	:
Control Toron	4.0	1 608K	20,000,00	411571.62	V/N	W/W	N/A	39%	N/A
Des fred Units		1,496K	1,111,996.68	857,141.38	1,568K	777,758.05		57%	19%
				ROV					
Submarine Tender	_								
30% Tended Calts		1,704K		1,099,221.58	350K		141.230.00	279	207
Submarine lender									
ATES ACE		395K		257,976.16	909 8		7,664.00	259	12%
		2,099K		1,357,197.74	410K		148,894.00	27.0	36.
Schmarine Tender									
se Total		90.3K		569,680.00	50K		15,511.00	63%	31%
versii Grand									
18 20 2		3,002K		1,926.877.99	460K		146,405.00	279	35%



reports is identified as Ending Report 21 Balance in Exhibit 32 and MECH 2157 in Exhibit 33. Alternately the financial information from manual Requisition/OPTAR Logs is identified as Ending OPTAR Balance in Exhibit 32 and as BOAT 2157 MSG in Exhibit 33. The wide variation between financial information accuracy and timeliness is readily apparent. The manual Requisition/OPTAR Log financial fund status can be seen to be significantly more current in nature. This significant difference from Exhibit 32 for ship's total amounts to \$585,809 or 11% of the total ship's allocation for this time frame. This 11% cannot be totally identifiable to timeliness since reconciliations prove that accuracy problems are always evident requiring both debit and credit adjustments to both the automated SUADPS system and the manual Requisition/ OPTAR Logs. However, this ll percent figure could be used as a very rough indication of timeliness and accuracy deficiencies. Note also that the percentage-spent shown in Exhibit 32 is computed from the manual Requisition/OPTAR Log status only, while the automated SUADPS official fund status is ignored for management control.

Financial control in supported units is even more complicated than aboard the Submarine Tender. Submarines tend to be deployed away from their parent tender much of the time, usually on special operations or strategic deterrent patrols. These deployments vary in duration from a few weeks to a few months, most of the time with the submarine submerged



and out of routine contact with its parent tender. When submarines are alongside for upkeeps or refits, they tend to stay from a few weeks to a few months, commonly less than one month. During this time they stock up on supplies and repair their equipment at a hectic pace. They normally obligate/expend over 90 percent of their quarterly OPTAR allocation during this short time period. With the inherent delay of the SUADPS financial design, the Report 21 becomes of minimal value. For this reason the supported submarines tend to depend far more heavily on their Requisition/OPTAR Logs for both managerial financial information and control and fiscal compliance to prevent obligations in excess of authority.

## D. MOTIVATION AND BEHAVIOR

Any control system in its implementation is designed to influence a process toward a direction perceived to be in the best interest for accomplishing organizational objectives. This influence process is characterized not by rational scientific principles but by little-understood human motivation and behavioral processes. The end result of a financial control system depends on how it influences behaviors and reciprocally is influenced by social and self controls of managers and subordinates. Robert Anthony emphasizes the point that

The central function of a management control system is motivation: the system should be designed in such a way that it assists and guides operating



managers to act in ways that are consistent with overall objectives of the organization. [Ref. 15, p. 53]

Newman confirms this view strongly stating

Management Control is effective only when it guides someone's behavior. Behavior, not measurements and reports, is the essence of control. We often become so involved with the mechanics of control that we lose sight of its purpose. [Ref. 16, p. 4]

Interviews and observations for identifying and unraveling the conflicting influences of SUADPS-related motivational and behavioral effects were far too difficult to completely resolve and beyond the scope of this thesis.

However, two unique but significant behavioral and motivational aspects were uncovered in sufficient detail to discuss. The first is the presence of conflicting priorities of the Supply Department Stock Control Division and the second is that of the professional attitude bias prevalent on a Submarine Tender.

The Supply Department's Stock Control Division is the primary division responsible for operating, managing, and controlling the SUADPS systems. The SUADPS system has a dual function of inventory control and financial management. Even the very name of the Division indicates that the emphasis of most Stock Control Divisions is in the area of Inventory Control. This conflict of priorities between inventory and financial management is seldom resolved. The limitations of highly skilled SUADPS personnel, and even manpower overall, can lead to the potential for personnel job assignments to overemphasize one of these highly important functional



responsibilities. The design of the SUADPS system even emphasizes the Inventory Control functions. Numerous. management Utility Programs are available to an Inventory Manager to conduct extensive reviews and utilize as management aids in management of the onboard Stores Inventory. Significant job satisfaction positive reinforcements from high activity level inventory program actions occur frequently. However, also by design, to prevent fraud and abuse, few financially related programs are available for management actions. The end result inevitably tends to contribute to a Stock Control Division's emphasis on Inventory Control.

Budget Systems or Control Systems in general are most often perceived by line management as first order negative feedback. This negative attitude and feeling of constraints on available management actions tend to start an adversary relationship from the onset between line management and financial control procedures. Professional attitudes are also important factors influencing financial control systems.

The Naval mission of a Submarine Tender is "Support of a Submarine Squadron." The personnel manning of a Submarine Tender is often a selection among professionals for high quality personnel for support of the nation's first line of defense, the Strategic Nuclear Ballistic Missile Submarines and for support of Hunter Killer Attack Submarines. A Submarine Tender is staffed with professionals (many even specifically designated Limited Duty Officer Professionals)



on many dimensions, such as Medical, Dental, Communications, Nuclear Weapons, Supply Corps, Chaplin Corps, Marine Corps, and even many specialized Repair personnel (i.e., nuclear reactor repair, submarine quality assurance repair, etc.). Anthony contends "In a non-profit, service organization, effectiveness cannot be measured by financial data by definition" [Ref. 15, p. 479]. Since a financial control system cannot numerically include information of effectiveness, many professionals tend to regard financial constraints as inappropriate restrictions to their work. Due to the preponderence of professionals on the Submarine Tender, financial implications of managerial decisions are often given low priority. Decision rationale are more often concerned with professional submarine support quality response. These actions on the part of Submarine Tender professionals at times can be likened to doctors calling for extensive and costly tests to save the lives of the patients, ignoring cost considerations because the price of life cannot be quantified. On the Submarine Tender a certain amount of this professional attitude is highly beneficial but to over-emphasize this behavior leads to the detriment of fiscal responsibility which cannot be ignored.

## E. OTHER SIGNIFICANT SHORTCOMINGS

Support for the SUADPS financial information and control system itself is frequently limited. The sheer complexity of the Shipboard Uniform Automated Data Processing System



(SUADPS) processes require extensive training, specialization and experience to facilitate even the most routine operation. Personnel quality is an important characteristic of the overall system's function. Changes of the manning levels, training schedules, and administrative procedures for the financial information and control role throughout the Submarine Tender's organization can severely affect the validity and integrity of the integrated SUADPS system. In advocating training in accounting systems, Anthony Hopwood proposes:

Training within the enterprise and experience on the job are further means of control...it is also used to inculcate the social value and organizational life styles and idealogies which can shape the premises which managers and employees use in decision making. [Ref. 17, p. 2]

For requisitions not satisfied from the Submarine Tender's Inventory, the potential for OPTAR adjustments causes even more problems for the SUADPS financial information and control system. The Fleet Accounting and Disbursing Center (FAADC) periodically sends Unmatched Expenditure Listings, Unfilled Order Listings, and Filled Order/Expenditure/
Difference Listings to the Submarine Tender on a periodic basis. The Submarine Tender, acting as the squadron accounting activity, is responsible for not only processing its own listings but also for all of its supported units. These listings must be researched for the determination of what adjustments and usually increased obligations are necessary to correct the SUADPS fund status reports. One problem with



this adjustment process is the excessive manual interfaces required to review applicable obligation and requisition status reports for analysis and corrective actions. Stock Control Division interviews indicated that this was a full time job for at the very least one individual but assistance often required even more manpower efforts. The magnitude of funds held in this transitional status can total in excess of several million dollars (this includes both the Navy Stock Fund Requisitions and End User Requisitions). Although the manual interfacing review efforts are a significant problem, an even greater problem existed in the financial processing delays associated with the FAADC actions. Financial storekeeper interviewees indicated that FAADC listings were generally received after a three-month delay which was evaluated as adequate. However, after extensively processing and reviewing the listings, FAADC took another three or four months time to resolve the mismatch and delete the documents from the Submarine Tender's Difference Listings. second delay caused financial storekeepers to duplicate their prior month's actions, wasting valuable manpower assets. For the SUADPS information and control financial records, the FAADC difference list processing procedures caused adjustments to fund status reports the potential of 7 to 8 month delay, severely affecting the accuracy and management planning actions at the Submarine Tender operational level.

The resolution of the financial float between the SUADPS system and FAADC has many of the same problems that



exist in reconciling the inside financial float between the RPPO and the SUADPS system. However, there is one important difference between these inside and outside financial floats. The processing system for difference adjustments in the outside financial float will eventually balance. Even though this balance may be as much as eight months late, in general it still will occur for external requisitions submitted by the SUADPS system. However, the internal financial float differences may never balance. Since the Submarine Tender's Supply Department is not staffed to completely reconcile all the many separate fund breakouts for itself and its customers, the burden of reconciliation procedures generally falls on the divisional RPPOs and supported units. These personnel have little incentive to correctly reflect errors or adjustments which are not in their favor. To do so would be to reduce their operating funds and possibly adversely affect their divisional/unit performance or scope of operations. If these errors were from external requisitions, they will become part of the outside financial float and be resolved eventually, charging the correct customer. However, if these errors were from internal tender requisitions, the errors may only be caught when the resultant inventory discrepancy is discovered. it is generally impossible to discover the unique causes of all the inventory discrepancies, the losses generally are charged as inventory losses against the Navy Stock Fund. Thus, in some cases the actual customer never really gets



properly charged for the material consumed and additionally severely affects the inventory control aspects of Submarine Tender operations.

Still another problem uncovered in the SUADPS financial control system is the funding methods. Many critics of the government point out the funding system as the root of the control problems. It is a commonly heard complaint in governmental financial control systems, and SUADPS is not different in this aspect, that the manager who manages his fiscal resources well one year too often is rewarded by less resources the following year. Regina Herzlinger suggests:

A major cause of the problem is the method of financing such organizations. Funding in block grants, which vary with neither volume nor quality of service and which are made before the work is done, does not reward effective and efficient performance and gives managers little incentive to encumber themselves with tighter controls. [Ref. 18, p. 84].

One Stock Control Officer, in relating the problems involved with reconciliation, spoke to this point and motivational behavior saying that the supported units had no incentive for accuracy in their financial records. This interviewee went so far as to say that the incentive for one particular supported unit to comprehensively review its Budget Report 21s for \$100 double entries and request corrections was close to zero. This particular supported unit simply asked for an increase in its annual allocation and was seldom, if ever, turned down by the parent squadron commander.



#### F. SUMMARY

This chapter reviews in depth the financial information and control aspects of the SUADPS system. Design deficiencies and implementation shortcomings uncovered are analyzed and discussed in detail. The next chapter will conclude the thesis with a summary of the significant findings with recommendations for improvements.



## VIII. CONCLUSIONS AND RECOMMENDATIONS

#### A. SUMMARY OF FINDINGS

The purpose of this thesis was to review the Shipboard Uniform Automated Data Processing System (SUADPS) from the perspective of the user to determine if the financial system achieves the goals of an effective information and control system. Therefore, a summary of the thesis findings with recommendations for improvements are provided in this chapter.

The deficiencies uncovered in this thesis generally fell into the categories of accuracy and timeliness, reconciliation processes, managerial usage, motivation and behavior, and miscellaneous. The major problems of accuracy and timeliness were found to relate consistently to all the other problems uncovered.

The most dramatic finding was that the SUADPS financial information and control system was so severely effected by the combination of all the factors uncovered in this thesis to the extent that operational line managers and even Commanding Officers and Squadron Commanders tended to regard the SUADPS financial reports and information with a lot of skepticism. Reliance for management decisions was placed on unofficial Requisition OPTAR Logs. In a superficial review, these logs were found too often being haphazardly kept, complete with mathematical errors and kept by an RPPO



not trained specifically as a storekeeper but from a variety of professional ratings. Although the management control processes in implementation aboard the Submarine Tender appeared adequate and possibly justified in using this information, serious questions about the legitimacy and effectiveness of resource allocations from these methods still persist.

Due to a combination of accuracy and timeliness problems, the SUADPS financial information in actual implementation was mostly ignored for internal management use and relegated to the role of fulfilling external reporting requirements only. SUADPS financial information, although delayed from the actual Submarine Tender's fund status, served the purpose of external reporting adequately with the exception of the end of the fiscal year. Superhuman manual efforts and early cut-off dates were the generally used procedures for SUADPS end of fiscal year accounting closeout processes.

Still another important finding was the SUADPS objectives for minimal manual and maximum automated policies, including the objective of no requirement for financial logs, was far from accomplished in actual implementation. However, SUADPS-RT has reemphasized these objectives in its development plans, but the extent to which it will succeed in implementation is still questionable.

#### B. CONCLUSIONS

Since its inception thirteen years ago, SUADPS has evolved from a simplified data processing system for major



Naval support ships, used mainly for clerical support in processing volumes of data, to a system today designed through many modifications specifically as a Management Information System. In the not too distant future (still several years away however), SUADPS is projected to be the single, all-inclusive, integrated, real time software system with respect to supply and financial functions for the entire Navy's operational fleet units. A literature review on the subject of Shipboard Uniform Automated Data Processing System (SUADPS) disclosed that there was very little information written on this topic to date. This was a very surprising finding, considering the major system it has become today, in addition to the major future implications to the Naval fleet.

This review of SUADPS, with respect to a system of financial information and control as it exists in implementation today, revealed that it is beset with numerous problems severely constraining the effective resource allocations of operational afloat managers and their ships in total. The call for better resource management, improvements in financial procedures and practices, and the reduction of waste within the Defense Department has been voiced strongly by our current Commander in Chief. Now is the time to actively continue pursuing corrective actions to the SUADPS financial system. Although SUADPS financial improvements have been enacted periodically since SUADPS' inception, increasing volumes of input, increasing manual interfaces,



increasing hardware problems, and increasing specific accounting requirements have caused the current financial system to be in serious trouble.

The result of interviews revealed that there was an underlying attitude among the key SUADPS personnel reflecting the acceptance of the current SUADPS shortcomings as beyond their control. It was also felt that these short term problems were expected to continue until the longer term SNAP I Phase 2 and SUADPS-RT programs were operationally available for the Submarine Tenders. As an example, by distribution of Budget Report 21s to Divisional RPPOs on a monthly basis only vice daily as designed for management purposes, a signal of submission to SUADPS problems can be interpreted. This signal is not only given at the lower operational levels but also at SUADPS User Conferences where user problems have been and still are often referred to the SUADPS-RT program for resolution. If indeed SUADPS-RT, as is presently scheduled, is to be the one and only financial information and control system for the entire Naval fleet, SUADPS must start improving its reputation. Also by correcting SUADPS problems now, the implementation of SUADPS-RT throughout the fleet may be somewhat simplified.

In Chapter V the subject of reconciliation and the negative attitudes derived from this process were discussed. In this day and age of computer assistance to management, it seems intolerable to conduct such a process without the



aid of a computer. The essence of the problem of reconciliation is that many financial transactions are in a state of float between the Requisition/OPTAR Logs and the SUADPS financial files. Based on the 22 day delay average processing time, it would seem that the float between the RPPO's Requisition/OPTAR Logs and the SUADPS files must be three weeks worth of normal transactions plus all the lingering problems which exist between the two parties. The transmission of three weeks worth of data every time a reconciliation is conducted runs far beyond the normal expectations of management by exception which must have been envisioned when this system was developed. Accordingly, it seems appropriate that new action must be taken in SUADPS to fill this information void until such time as real time processing is available to SUADPS customers.

The SUADPS financial information and control system, as reviewed by this thesis, was ascertained to serve three distinct purposes of: costing, control of resources and costs, and as a vehicle for budget justifications or planning estimates. In the author's opinion, in SUADPS's current state the costing appeared to be far too detailed, causing far too much needless complexity. Although the numerous ROV cost codes are specifically required by NAVSUP P-522, a management review of S&E cost breakdowns for possible summarization and condensing efforts is suggested for the interim until SUADPS-RT implementation. Control of resources and costs in general require an immediate emphasis for



management attention and corrective actions. Planning estimates and OPTAR justifications from a SUADPS basis should be used in an initial rough capacity only until significant reconciliation procedures have been implemented effectively.

Additionally, prior to the implementation of SUADPS-RT, managers and users of the current SUADPS system need to thoughtfully review their attitudes and value judgments of the SUADPS system in total. Questions on the worth of effort and value of such a complex SUADPS system need to be voiced, discussed, analyzed, and recited to all personnel associated with SUADPS.

As a final note, given the magnitude of the resources involved, the intricacies of the system, and the numerous shortcomings uncovered, it was amazing that the resource allocation process operated as successfully as it did. However, the potential for disastrous results was judged to be extremely high. Therefore, improvement recommendations are provided for immediate management attention.

#### C. RECOMMENDATIONS

Any review or evaluation will never provide all the answers. However, it can expose deficiencies in existing programs and show the direction toward required corrective actions. With this concept in mind, this thesis review was conducted on an increasingly important SUADPS financial information and control system for the purpose of providing management enlightenment on deficiencies from the user



standpoint and recommendations for their improvement. The findings in Chapter V present a clear and urgent message that immediate improvement actions are needed. The recommendations provided below can only assist in reviving a decaying system.

1. Reconciliation guidelines, procedures, and instructions should be formalized, standardized and promulgated to all SUADPS users.

In a Naval Audit Service audit of COMSUBPAC in 1977

[Ref. 19, p. 2], the requirement to improve financial reconciliation procedures was a major discrepancy. This same deficiency as identified in this thesis is still an ongoing unresolved problem. This thesis points out that accurate and consistent reconciliations are a key to financial information accuracy and timeliness. Submarine Tender personnel are too engrossed in keeping the SUADPS system operational and dealing with the extensive manual interfaces to develop individual reconciliation instructions. In the interest of preventing the reinvention of the wheel, the USS DIXON's Reconciliation Instruction is provided in Appendix F. These guidelines were judged to be an excellent and easily understandable manual that is recommended for extensive promulgation.

2. The Stock Control Officer should be given the authority to oversee and manage the entire data input processes.

Currently the data input procedures are far too complicated and lengthy. A survey performed in conjunction with



this thesis indicated an average processing time frame of 22 days. The Stock Control Officer, given authority to expedite this process through the other three divisions, could trim this time frame greatly in order to allow the SUADPS financial system the opportunity for significantly increased accuracy and timeliness. Periodic audits of this processing time frame should also be initiated and monitored for immediate corrections when inordinate time frames appear.

- 3. More frequent SUADPS update processing is required.
- Currently only 2 to 3 updates are processed per week.

  This schedule is not adequate enough to provide the required timeliness of SUADPS financial information that is needed by operational line managers in support of their responsibilities. Due to the completion of SNAP I Phase 1 hardware constraints, associated downtime and processing time have been greatly decreased. With only the slight reduction of often redundant inventory control processing, several more updates per week could be effected to significantly improve the SUADPS financial information timeliness.
- 4. SUADPS should be modified to include an automated visibility of the float between the RPPO's Requisition/OPTAR Log and completed SUADPS financial transactions. Additionally, SUADPS should then utilize this new float visibility as an addition to the Report 21 to produce more meaningful financial reports from SUADPS for internal management of funds,



inprocess supply and financial transactions and as a basis for ongoing performance evaluation of the SUADPS system.

It's recommended that this visibility be achieved by obtaining listings of all requisitions (Requisition #) and dollar value of each requisition from RPPOs each week for all submitted requests since the previous week. This minimum information should be input to SUADPS, matched against transactions as they process to a conclusion in SUADPS and thus maintained as a permanent float until deleted by the RPPO. Further the float "lists" should be employed by SUADPS to perform a mechanized reconciliation process which would then truely reduce the RPPO's reconciliation to a management by exception basis.

5. A program for the assignment, certification, and training of Divisional Repair Parts Petty Officers (RPPOs) should be formalized.

The RPPO is an integral part of the SUADPS financial information and control system. Excessive turnover and vastly varying skill levels were evidenced by this thesis review. Error rates are often a function of the RPPO training and experience. In the opinion of the author, the understanding of the SUADPS general objectives, reports, and procedures combined with a teamwork motivational attitude among the RPPOs as divisional representatives to the SUADPS system could dramatically improve the SUADPS operation.



6. Top management support of the SUADPS financial information and control system is urgently needed from the Commanding Officers and Squadron Commanders.

From a review of top management's local management report formats, it was quite evident that SUADPS financial information was often ignored in favor of unofficial Requisition/OPTAR Logs. Anthony and Herzlinger [Ref. 20, p. 447] commented that "A management control system is likely to be ineffective unless members of the organization's units perceived that it is considered important by their superiors." Specifically, the SUADPS Budget Report 21, or even financial information in general, can show little improvement as a financial information and control system until top management involvement is prevalent. This involvement must communicate to the middle management and first-line supervisors the importance of the balance between mission professional quality and fiscal responsibilities as a renewed organizational policy. Their visible support of this momentum in education and training programs would benefit both short and long term progress.

7. Relevant standards for the Submarine Tenders serviceoriented output need to be identified and linked to the
SUADPS financial information and control system.

Currently the SUADPS financial control system is ineffective in its usage by controlling on an input standard or a measure of expenditure rates. For efficient and effective allocation of resources, the Submarine Tender financial costs



should be related to its output of resupply and repair services to submarines. A financial control system cannot operate independently but must be integrated into the entire Submarine Tender management control system.

#### D. FOLLOW-ON THESIS TOPICS

In the course of this thesis research, several SUADPS related areas for follow-on study were identified as possible thesis topics:

- 1. A review of FAADC financial processing operations.
- Alternatives for Naval fleet-wide implementation of SUADPS-RT.
- 3. Examining the relationships between the Naval fleet's supply and maintenance systems (SUADPS vs IMMS/OMMS).
- 4. SUADPS-RT: does it meet its objectives as an on-line inventory and financial management system?



#### APPENDIX A

## KEY SUADPS MISSION SUPPORT AND FUNCTIONAL CAPABILITIES

Key SUADPS mission support and functional capabilities are summarized below:

Procuring/requisitioning

Requisition processing
Requisition status monitoring
Requisition history file
Automatic reorder
Automatic follow-up

Overage requisition analysis

Department advice/status on outstanding requisitions

Excess requisition cancellation

## Receiving

Receipts
Receipt in-process
Receipt history file
Requisition reconciliation

# Storing

Item location control
Inventory of selected categories of items
Location audit
Storeroom action
Location change history

# Issuing

Issue recording
Issue restriction
Suspended issue tracking
Demand and frequency accumulation
SEAMART



## Shipping

Shipping invoice preparation

## Transferring

Automated preparation of off-load documents
Automated off-load
Production of suspense cards for turn-ins
Material transfer to other activities

## Selling

Automated cash sales

## Accounting

Posting financial transactions
Automated TIRs for specific BUMED items
Automated maintenance of financial records
Automated inventory manager cyclic asset
reports

Preparation of accounting and supply reports
Magnetic tape exchange with FAADCs
OPTAR history file inquiry
Summary management analysis reports
Processing unfilled orders

Maintaining inventory management control of stores and equipment

Automated adjustment of stocked levels based on a continuing review of usage trends

Automated processing of change notice actions

Repairable item management

Monitoring of shelf-life items

Local management control of selected items

Transaction item reporting

Maintenance of a cross reference file

Maintenance of pool allowance

Physical inventory aids

Change notice processing, analysis and notification



COSAL, AVCAL, "Q" COSAL, Boat COSAL, Load List processing/maintenance

General file analyzer and report generator capability

Automated excess computations

Posting all transactions to asset status records

Determining inventory adjustment quantities

Validating MILSTRIP data

Identifying duplicate documents

Substitute and interchangeable data

Preparing access/asset reports

Validation of input to insure record and report accuracy

Management analysis of system errors

Transaction Ledger accumulation

Printing off-line aids such as catalogues and listings

Collection of 3-M logistics data for local and upline reporting



## APPENDIX B

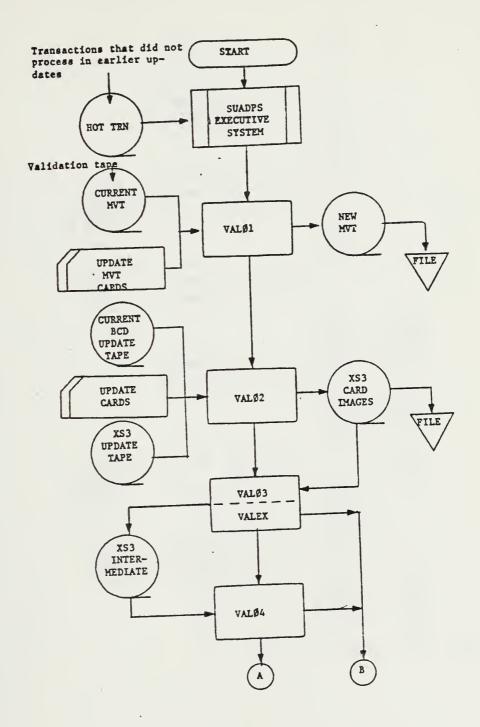
## SUADPS TAPE FILES

- 1. Master Instruction Tape (MIT)
- 2. Master Validation Tables (MVT)
- 3. XS3 Tape
- 4. BCD Tape
- 5. Transaction Tape (TRN)
- 6. Requisition File (RQN)
- 7. Master Record File (MRF)
- 8. Numbers File (NBRS)
- 9. Financial Work Tape (FWT)
- 10. Financial Master File (FMF)
- 11. Unsorted SOT
- 12. Sorted SOT
- 13. Hot TRN
- 14. Requisition History File (RHF)
- 15. Cumulative Transaction Ledger (CTL)
- 16. Cumulative Receipt History (CRH)
- 17. Cumulative OSO Transfer History
- 18. TDA91 Input to MOC
- 19. OPTAR History File (OHF)
- 20. RQW Requisition Work Tape

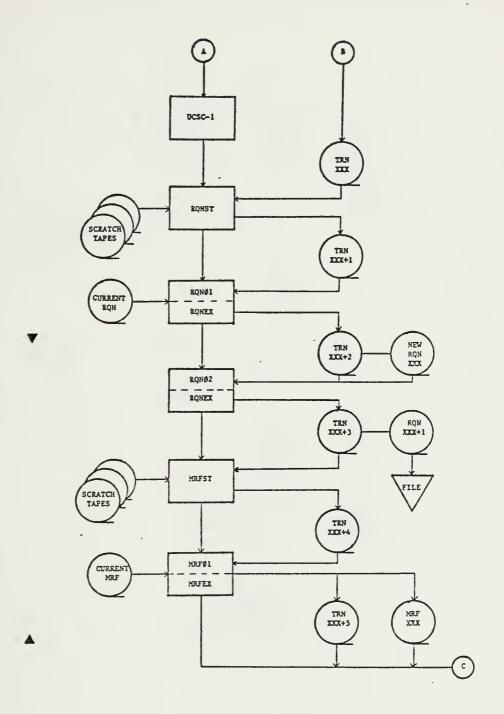


## APPENDIX C

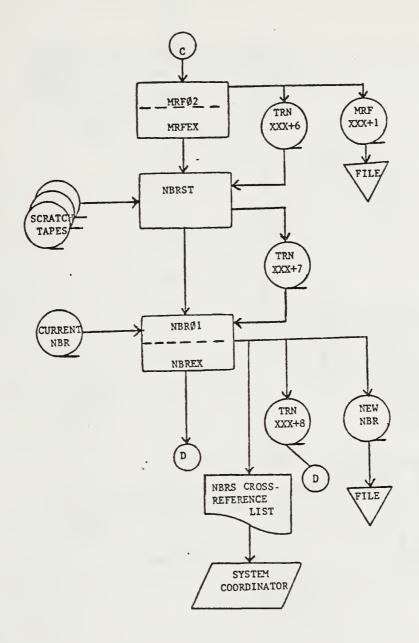
# SUADPS DETAILS UPDATE FLOW CHART



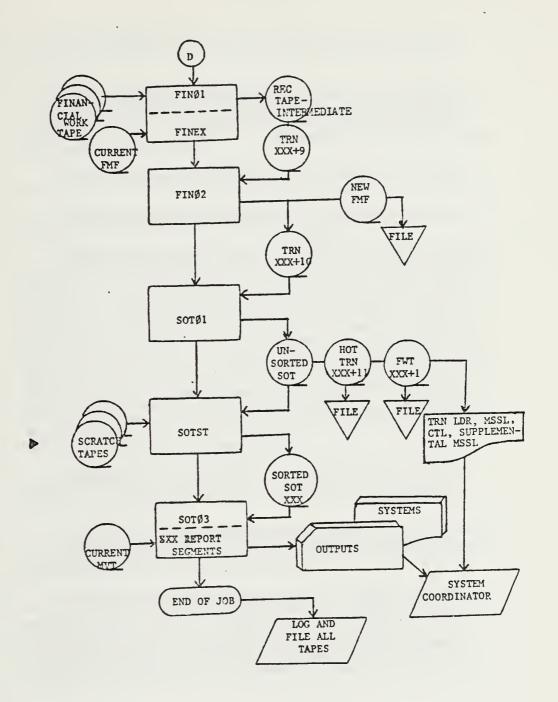














(3) Flow Chart Narrative. SUADPS EXEC initiates the modular processing and portions of it remain core resident throughout the update processing.

Validation First Segment (VAL01) updates and copies the MVT, if change cards are present; otherwise, it only loads the VTC (tables used by computer to validate input) block of the MVT and turns over control to VAL02. MVT update cards must be the first input of the update or they will error out as erroneous DIs. MVT updating cannot be done during MDC, MRF03 or MAN01 updates.

Validation Second Segment (VALØ2) reads the new input and creates the XS3 output tape, then turns over control to VALEX.

Validation Executive Segment (VALEX) is the executive control segment that guides processing during VALØ3 and VALØ4.

Validation Third Segment (VALØ3) in conjunction with VALEX, validates if necessary and copies to the output TRN tape the TRN records wrapping around on the HOT TRN. VAL 93 then reads the XS3 tape, setting the Posting Group Keys and writing the newly created TRN records on the output TRN tape. If a Type III (numeric) DI or a DI that begins with "N" is encountered on the new input XS3 tape, VALØ3 will request a scratch tape and write those card images on an intermediate XS3 tape for validation during VALØ4. Although it is possible to stop at any of the various legal recovery points and come back through the system to add additional new input, extreme caution should be used because if certain DIs that validate in VALØ4 are on the HOT TRN, they will error out in VALØ3 with MKNR 3, also, if the update had already been through RON or MRF, the transaction ledgers and SSSL would be garbled or produced in two parts. If new input is encountered that requires validating in VAL#4, the TRN is left open at the end of VAL93 and control is turned over to VAL94; otherwise, the TRN tape is closed and control passes to UCSCl..

Validation Fourth Segment (VALØ4) in conjunction with VALEX, reads and validates Change Notice, DI IIIs (report types) and writes the TRN records onto the still open TRN tape. The TRN tape is then closed and control passes to UCSCl.

Uniform Carrier System Control One Segment (UCSC1) assigns the segments (based upon DI input), and then rewrites the TRN label block and rewinds the TRN, which is now a good restart tape. Control is turned over to SUADPS which loads the next segment to be run.

Requisition Sort Segment (RONST) accomplishes sorting of the TRN tape for RQN processing by acting as a preprocessor for NARDAC's (FTSD) utility sort/merge program, SRTMRG. Parameters and tapes are set up and SRTMRG is then loaded as a segment. SRTMRG in turn loads the Requisition Own Code segment (RQNOC) which controls the first and last pass processing. During the first pass processing, the records read from the TRN tape are screened for applicability to the upcoming file update (RQN in this case).



If a given TRN record does not apply to the RQN File, another read occurs, thus overlaying that record in core. Those TRN records that are flagged to process in RQNØ1 will enter SRTMRG's normal sort routine. After the last merge pass is completed, the input TRN tape is remounted so that the TRN records ignored on the first pass can now be copied onto the open output TRN tape. Control is then passed to RONØI. At this point, the new TRN tape is a valid recovery (restart) TRN for RQNØ1. The 3B response to the "NUMBER OF SERVOS?" typeout causes a normal three tape drive sort except that the program will request that the MIT be dismounted and the scratch placed on TTl will receive the bypass records during the first pass processing. This scratch will eventually also receive the TRN records that are sorted and the tape will then become the completed output TRN. Using the 3B option requires exactly the same number of tape mounts and dismounts but saves the time required to do the second pass of the input TRN. The only drawback to the 3B option is that is will not work if only three tape drives are available. The TFT response to the "NUMBER OF SERVOS?" typeout can only be used while rnnning on the Fastrand drum. A Tape Fastrand Tape sort utilizes the Fastrand drum as the external intermediate sort medium. During the first pass this option also writes the bypass transaction directly onto what will eventually be the output sorted TRN tape.

Requisition First Segment (RQNØ1) contains modules for building and updating the file. The processing of MDS related transactions is accomplished in this segment. Note: DI Ø01 is processed in RQNØ2.

Requisition Executive Segment (RQNEX) does a matching and updating process between the sorted transactions that apply to the requisition file and the RQN File itself. Upon completion of RQN update, the TRN is closed and rewound and control is given to the next required segment. The TRN is now good for a restart.

Requisition Second Segment (RQN $\emptyset$ 2) contains only DI 3 modules for creating reports.

Requisition Executive Segment (RQNEX) does a matching and updating process between the sorted transactions that apply to the requisition file and the RQN File itself. Upon completion of RQN update, the TRN is closed and rewound and control is given to the next required segment. The TRN is now good for a restart.

Master Record File Sort Segment (MRFST) is the same as RQNST, with the sorted TRN tape out of MRFST being a good recovery tape.

Master Record File First Segment (MRFØ1) contains modules to build and/or update the current MRF, and also extracts onto the TRN required report records. Because of core limitations, it is not possible to process all possible types of transactions or report requests in one pass of the MRF. To keep from passing the MRF twice on every update,



the processing modules have been arranged so that those DIs which are most frequently requested are assembled in MRFØ1. MRFØ2 is automatically scheduled for processing if any of those DIs assembled in MRFØ2 are among the other new input. After the completion of the MRF update in MRFØ1, the output TRN is closed becoming a valid restart tape for the next processing segment (i.e., MRFØ2 or NBRST or FINØ1 or SOTØ1).

Master Record File Executive Segment (MRFEX) performs the same basic function as RQNEX.

<u>Master Record File Second Segment (MRF02)</u> updates the MRF, prints the MSSLL (when requested) and extracts onto the TRN any required report records, closing the TRN before turning over control to the next segment. If Skip Key #2 is put to "ON" any time during printing of the MSSL, the listing will be bypassed. By calling MRF03 off-line, the MSSL may be continued from the point termination occurred.

MRFEX (see MRFEX above). Upon conclusion of the MRF02/MRFEX update the TRN label block is re-updated making it a valid recovery TRN.

Numbers Sort Segment (NBRST) is basically the same as RQNST and MRFST. The output TRN is a good restart tape for NBRØ1.

Numbers First Segment (NBRØ1) contains the modules for an update and information extracted from the Numbers File. The TRN tape out of NBRØ1/NBREX is a good recovery into either FINØ1 or SOTØ1.

 $\underline{\text{Numbers Executive Segment (NBREX)}}$  performs the same basic function as RQNEX and MRFEX.

<u>Financial First Segment (FINØ1)</u> contains the modules to assign financial flags and update certain financial counters. The TRN tapes out of FINØ1 and the REC tape together are good recovery tapes into FINØ2.

<u>Financial Executive (FINEX)</u> controls the passing of pertinent records through core. Any FWTs created in previous runs will be called in inverted sequential order.

Financial Second Segment (FINØ2) contains the modules to update the Financial Master File (FMF) tables with the financial information in the TRN record based on certain financial flags set in FINØ1. A new FMF is created and a TRN tape good for restart in SOTØ1 is produced.

System Output Tape First Segment (SOTØ1) does a three-way split of the information on the input TRN. First the input TRN is copied to a TRN/SOT tape until a record that has completed all processing except for financial processing is encountered. If and when these type of records are encountered, they are copied onto a new FWI tape. The



TRN/SOT tape is then split, sending TRN records to the wrap around TRN and SOT records to the unsorted SOT tape. During the copy of the TRN tape to the TRN/SOT or FWT, the supplemental MSSL is printed. During the split of the TRN/SOT into a TRN and an unsorted SOT, the transaction ledger(s) is/are printed. The TRN/SOT is a valid recovery tape back into SOTØ1, but should be scratched once SOTØ3 is completed. The wrap around TRN produced here will be the HOT TRN for the next update. All TRNs into SOTØ1 should be saved until two successful financial runs have been made as they would be needed to recreate an FWT should one prove unreadable. FOR ATLANTIC FLEET AS (FBM) ONLY - PPMMS strip produces punched cards from selected SOT records to be passed to PMO Charleston via autodin.

System Output Tape Sort Segment (SOTST) is similar to the other system sorts except that it sorts all of the records on the unsorted SOT tape.

System Output Tape Third Segment (SOTØ3) controls the scheduling and output of the reports. All requested and internally scheduled reports will come out in report number sequence, unless selected reporting is requested. Through selected reporting the order of reports and the appearance or non-appearance of reports can be controlled. If by-pass of punched card output is desired, put Skip Key #2 on.

END OF JOB is the End of Job routine.



#### APPENDIX D

## SUADPS-RT SPECIFIC OBJECTIVES

#### SECTION 4--OBJECTIVES

<u>4.1 Introduction.</u> Objectives included in this section are related to the functional work processes or operations outlined in the Environment Section. These objectives will provide a frame-of-reference from which solutions to stated problems and realization of opportunities identified can be gauged.

4.2 Overall Objective. The overall objective of the SUADPS-RT ADS is to provide a user oriented and enhanced supply/financial system that supports designated shipboard and MAG Supply Department supply support mission functions. An annual personnel cost avoidance for augmenting personnel of \$9,015,000 and a one time cost avoidance of \$698,000 to provide minimal Baseline system enhancements serve as offsets against the cost of the new ADS. The annual and one-time cost avoidances will be realized in the first year after the system implementation.

<u>4.3 Specific Objectives.</u> Specific objectives of the SUADPS-RT system are directed toward improved system responsiveness and satisfying user requirements. These objectives include:

- Reducing by at least 10%, the number of items reported as being in an "excess on-hand and on-order" position. This reduction should provide the funding to maintain minimal material in-store on-hand "range" quantities. The reduction will be achieved within one year of the system becoming operational.
- Increasing supply "net effectiveness" within the SUADPS-RT user activities by 2 to 5%. This increase should be achievable within one year after SUADPS-RT is implemented.
- Providing a system that has pre-posting and concurrent processing of transaction capabilities. These processing modes should provide a 20% reduction in the number of "unmatched expenditure transactions" and promote improved financial management within the user and official

<sup>&</sup>lt;sup>1</sup>Minimal range of material in-store indicates at least one of each item allowed to be carried is on-hand or on-order.



accounting activities. The reduction will be achieved within one year after implementation of SUADPS-RT.

- Providing a system with a viable "in-process" receipt module that is capable of tracking during the process. This processing module should provide a 20% reduction in the number of "unmatched receipts (NSF-207) reported by the FAADC to cognizant user activities. The reduction will be achieved within one year after implementation of SUADPS-RT.
- Providing a system that expedites and enhances the recording and reporting of supply related maintenance data to NAMSO. The system should reduce the average reporting time by 20% and reduce the "inprocess suspension" or retaining of transactions for matching by 50%.
   These reductions will commence when SUADPS-RT is operational.
- Providing a system that expedites and enhances the recording and reporting of supply demand data. A 10% improvement in the reporting of maintenance related issues to NAMSO should be attained. This increase will be achieved within six months after SUADPS-RT is implemented at each site.
- Providing a system containing real-time processing of location data ancillary to receipt processing, location audits and periodic physical inventories. A 50% reduction in the time to process a location change and a 10% increase in the filling of NMCS/CASREPT issues from "receipts in-process" should be attained. These system operating enhancements should be realized within six months after implementation of SUADPS-RT.
- Providing a modern ADP system that concurrently processes and/or generates related transactions (e.g., receipt transaction and quantity adjustment, or receipt transaction and location change data). Inventory adjustment transactions should be reduced by 10%. This reduction will be attained within six months after SUADPS-RT is implemented.



- Providing a system that automates some manual functions required to operate the Baseline system. A 15% reduction in the manual functions will provide man-power to enhance those supply support mission functions now deferred. This reduction will be attained within six months after SUADPS-RT becomes operational in the user activity.
- Providing a system that interfaces directly with the maintenance systems and can process inquiries and responses on-line. The average inter-system inquiry/response time should be reduced by 50% and enhance the maintenance productive functions. This reduction should be attained upon supply/maintenance systems integration and operational certification.
- Providing a system that is an on-line real-time system that will reduce "off-line" manual inventory and financial management records. A 50% reduction in manhours, transferable to other related functions being performed at unacceptable levels, should be attained. This reduction should be attained upon implementation of the system.
- Providing a system that will improve the timeliness and accuracy of "up-line" reports and return data. The ratio of current transactions (1 to 2 days old) should be increased by 10% and will enhance all data bases affected by the reports/returns. The increase should be attained within six months after the system is implemented.
- Providing a system with "fail-soft" capabilities and that will utilize all
  of the SNAP I ADPE's environmental capabilities. Utilization of the
  SNAP I environment capabilities should provide a minimum 10%
  increase in ADPE productive utilization. This increase will be attained
  within six months after the system is implemented.

Other specific objectives related to those cited above are:

 Improving mean supply response time for organizational and intermediate level material requirements at the activity level.



- Redirecting to remote source data entry techniques and supply support functions currently performed at unacceptable levels, manhours spent doing the following functions:
  - Manual preparation of supply/financial documentation.
  - Manual research of technical identification data for material.
  - Maintenance of "Local" departmental/divisional budget record.
  - Manual material location research.
  - Processing of error and/or adjustment transaction.
  - Processing of receipt take-up card or receipt-in-process transactions.
- Automatically determining reorder requirements.
- Processing of reorders on-line to enter various parameters so as to adjust the reorder to the "best reorder determination" within monetary constraints and other factors.
- Determining material availability and preparing "direct-turnover" requisitions for Not-in-Stock (NIS) requirements on-line.
- Concurrent processing of material issue and direct turnover requisition obligation/expenditures and budgetary records.
- Providing automated notification of requisition data (e.g., over-age dues, records without status, etc).
- Providing outstanding requisition real-time query capability.
- On-line, real-time receipt transaction processing and related adjustment transaction generation and processing.



- Real-time processing of location audit/change data of material in-store.
- Providing special handling/storage data to intra-activity users in a realtime mode.
- Processing inventory data/adjustments in a real-time mode.
- Providing an automated means to prepare Transfer Invoices and related transportation documentation.
- Automated determination of designated overhaul points for retrograde repairables.
- Maintaining material-in-store stock records in a more timely and accurate manner.
- Processing AVCAL, COSAL, Load/List range and depth adjustments and generating more timely report transactions.
- Providing adequate material interchangeability/substitutability data and related asset availability.
- Providing current inventory management visibility of on-board material in-store assets and "in-process" repairable components.
- Providing the means to process requisition/receipt transactions more timely and to reflect actual request or receipt data for an accurate computation of order and shipping/receipt processing times.
- Eliminating the necessity for "off-line" manual processing of repairable/special material inventory management systems.
- Concurrent processing of Budget/OPTAR records and requisition and/or issue data records.



- Providing timely visibility of Budget/OPTAR balances and/or transactions.
- Providing automated cross-referencing and retrieval of supply/3M data as appropriate.

Additional functional areas that will be automated as resources allow, include:

- Supply/financial automated sub-systems for Disbursing, Food Service and Ship's Store/Retail Operations.
- CAIMS inventory management sub-system.



#### APPENDIX E

#### SUMMARY LISTING OF SUADPS ERRORS

GLOSSARY (SEE APPENDIX 19 OF THE SUPPORT PROCEDURES FOR FURTHER DETAILS ON EACH OF THESE MESSAGE KEY NUMBERS.)

#### KEYS:

- (I) INFORMATION LISTING (MKNR)
- (S) SUSPENDED TRANSACTION LISTING (MKNR)

NO INDICATOR - TRANSACTION ERROR LISTING (MKNR)

- 1 LOCAL MGT CODE NOT IN TABLE
- 2 COG MUST MATCH VALIDATION TABLE
- 3 DOC IDENT MUST MATCH TABLE
- 4 REINPT WITH CORRECT DOC NR/SV CDE
- 5 DOC NR NOT IN RQN FILE
- 6 F/C NOT IN APPLICABLE TABLE
- 7 INVALID/INAPPROPRIATE UIC
- 8 MONEY VALUE MUST BE NUMERIC
- 9 PRIORITY CODE MUST BE NUMERIC
- 10 QUANTITY FIELD MUST BE NUMERIC
- 11 REINPUT WITH CORRECT RCD TYPE CODE
- 12 SIGNAL CODE INVALID
- 13 STOCK NUMBER INCOMPATIBLE WITH RIC
- 14 STOCK NUMBER IS NOT IN MRF
- 15 TWO POS OF SER NO NOT IN DPT TABLE
- 16 SUFFIX CODE MUST BE ALPHA
- 17 TCOG DOES NOT MATCH MCOG
- 18 UNIT OF ISSUE MUST MATCH TABLE
- 19 TRANS UI MUST MATCH MRF UI
- 20 UNIT PRICE MUST BE NUMERIC
- 21(I)S/N NOT MTR IN MRF AND TRAN
- 22 ILLEGAL SUP ADDRESS
- 23(I)INVENTORY ADJUSTMENT EXCEDS \$500
- 24(S)INSUFFICIENT QTY AVAIL IN MRF
- 25 CONVERT UI/QTY TO RQN UI/QTY
- 26 STK NR DOESNT MATCH RQN RCRD
- 27 NUMERIC FIELD MUST BE NUM OR /
- 28 FLAG MUST BE 1 OR /
- 29 U/I DOESNT MATCH RQN RECORD
- 30 LOCATION BLANK OR INVALID
- 31 BAS RQN ALT BY X77. X71/73 ILLEGAL
- 32 QTY/ALLOW OR LOC REOD IF CC54 BLK
- 33 NON-MAT'L RECEIPT INDIC. INVALID
- 34 RQN ALRDY EXIST UNDER SAME DOC NR
- 35 STATUS CODE INCOMPATIBLE WITH DI
- 36 PRP CODE TRF RON/MAY REQ INV ADJ
- 37 MATERIAL RECEIPT DATE INVALID
- 38(I)SUBMIT MTR ADVICE CODE TO SHORE
- 39 RTC, QTY, COG INCOMPATIBLE
- 40 EST SHIPPING DATE ILLEGAL



```
41
     SMCC MUST MATCH TABLE
42
     TYPE STORAGE CODE MUST MATCH TFL
43
     INVALID REPAIR INDICATOR
```

44 SPEC HANDLING CODE MUST BE ALPHA

45 DATE FIELD INVALID

46 REVERSAL INVALID/RQN NOT ON FILE

47(I)OUTSTANDING DTO WITH STOCK ONHAND 48(I)THIS REVERSING TRN HAS PROCESSED

MAT CONTRL CODE MUST MATCH TABLE

50(I)TRN FOR BUMED CONTROLLED ITEM

51 A/T CODE MUST BE 1-9

52 ERC CODE INVALID

53 APL/IOL TO BE DLETD ISNT IN NBR

54 RO/RP FIELD MUST BE NUMERIC

55 MTR GAIN REQUIRES DOC NR

56 RECORD SHOWS RON ALRDY CMPLETED

57 DUMMY YEARLY FINANCIAL NOT ALLOWED

58 RI TO OR RI FROM IS WRONG

59 60 ADVICE CDE MUST MATCH TABLE

HI/LO + A/T CODE INCOMPATIBLE

61 REINPUT WITH CORECT PROJECT CODE

62 PURPSE CDE MUST BE EITHER A OR W 63 INVALID AVCA/ALLOWANCE INDICATOR

64 DISTRIBUTION CODE MUST BE ALPHA

65(I)CONSOLIDATE S1 LOCATIONS

CANNOT PROCESS LOCATION 66

67 OVERRIDE CODE INVALID

68 REINPUT CORRECT MEDIA + STATUS

REINPUT WITH CORECT DEMAND CODE 69

RDD MUST BE ALPHA/NUMERIC 70

71 NO APPRN IN TEL FOR F/C + F/Y

72 MRF STK RECORD ALREADY EXISTS

73 REPLY DATE MUST BE NUMERIC

74 INVALID CODE FUND

TRAN DATE FLD MUST BE NUMERIC 75

76 INPT X43 MTR SURVEY ON LOST QTY

77(I)MTR INV GAIN HAS PROCESSED

78 MRF ESTABLISH INDICATOR INVALID

79(I)TEN HAS EST'D A DUAL MRF RECORD

80(I)THIS OVRIDE CODE HAS PROCESSED 81 ADD/DELETE INDICATOR INVALID

82 MVO ISSUE NOTATION INVALID

PRICE CHANGE REQUIRES CHG NOTICE

84(I)DEAD RQN REORDER IF REQUIRED

85(I)BF STATUS REC-OTHER STATUS PRESENT

86(I)REPAIRABLE X31/AO- MCDIFIED REPAIRABLE X31 ILLEGAL 87

88 ALL ZERO TOTY ILLEGAL



- INPUT TTDIV UNEQUAL DPT TTDIV 90(S)MRF/NBR SUB-RECDS ARE FULL 91 FC/OVRCD ILLEGAL FOR SYSCOM SOAP 92 COG MUST BE 99 F/SERVICE FC 93(I)COG OI MRF NOT REQUIRED 94 . THIS REV. TRN HAS PROCESSED RTC 4 REQUIRED WHEN TGTY C9999 95 96 DI INCOMPATIBLE WITHOTHER INPUT 97 POOL ITEM NEEDS REPAIRABLE MCC 98 DOC NR NOT IN SUB-RECORD 99 TYPE 3 DI ERROR-SYSTEM COORDINATOR U/P CODE / EST PRICE INDIC INVALID 100 101(I) NEW A/T 6 STK RCRD EST AUTOMATICLY RETAIN QTY MUST BE NUMERIC 102 103 X13 INDICATOR TO SET MIDAT INVALID 104 F C INCOMPATABL WTH MRF/TRN CCG 105 TRN OVRCD DOES NOT MATCH RQN CVRCD 106(I)SUBSTUT AVAIL ON THIS SLOW RQN 107 TC116 MUST EG S, B, OR BLANK INSUFFICIENT QTY AVAILABLE IN MRF 108 109 PAL MUST BE NUMERIC 110 SUPPORTED UNIT CODE INVALID 111 ERRONEOUS OVERRIDE CODE M TQTY MUST MATCH RQTY 112 113 OUTPUT INDICATOR INVALID 114 OUTPUT REQUEST ALREADY ON FILE 115 NO REORDER OUTPUT REQUEST 116 CREDIT CODE INVALID 117 NO MATCHING REQN 118 BEGINNING JDAT SERIAL INVALID TCOG MUST MATCH RCOG 119 120 DUMMY/REPORT INDICATOR INVALID
- 125 DI USED ERRONEOUSLY 126 INSUFFICIENT DATA TO ESTABLISH RCD ENDING JDAT SERIAL INVALID . 127 128 REORDER REVIEW CLR IND MUST BE C 129(I)MRF DUAL RECORD LCC DROPPED 130(I)LOCATION NCT PROCESSED 131 TFCI/TEC INVALID 132(I)FLEET CONTROLLED ITEM TECI MANDATORY AFM/SQD DOCUMENT 133 134 OVERAGE SUSPENS

SUM OF PACK-UP QTYS LESS ONHD MO MUST BE MINIMUM OF 01 MAX OF 12

EFFECTIVENESS EXCLUDE CODE ILLEGAL

135 INVALID USE OF CASH SALES CODE 136(S)INVENTORY ACTION PENDING

123(I)MATL RECD WITH AT/AT6=8

121

122

124



```
137
      REINPUT APPROP AFM FC AND OVRCD C
138
      MRF QTY>131071.USE CI X13 NOT X11
139
      PROCESS CODE INVALID
140
     HI/LO/COSAL EXCEEDS LMTS (131,071)
141
      DUP SUFFIX CD-CORRECT AND REINPUT
142
      INVALID IOL/APL
143(I)C1C 68 CLEARED - IND/FC INCOMP
144
      SM+R CODE INVALID OR NOT SLASH
145
      APA FC/COG ILLEGAL
146
      UIC ILLEGAL F/SYSCOM SOAP CHG
147
     DEPT CODE ILLEGAL
148
     IDFLG NOT SET-NO INV-SEE DI 084
149
150
      QUANTITY ERROR-CC 25-29/45-49
151
     FC AND BUIC INCOMPATIBLE
152(I)X91/X92 REQUIRED
153
     DPC AND FC NOT COMPATIBLE
      MDC RCD TO BE DEL NOT IN FILE
154
     DUPLICATE X91 INPUT
155
156
     EQUIPMENT ID CODE INVALID
     JOB SEQUENCE NUMBER INVALID
157
158
    DI ILLEGAL FOR YOUR USID
159
      APL/CID INVALID
160
     REFERENCE SYMBOL NUMBER INVALID
161
     X91/X92 ERR. USE NEW FORMAT.
     NON-MDC RCD IN FILE-CORRECT DN
162
163
     ILLEGAL TRANSACTION DATE
164
     DATA ELEMENT/USID NOT COMPATIBLE
165
     DUPLICATE X71 REVERSAL INPUT
166(I) ERRONEOUS SUBSTITUTE RECEIPT
167
     FILL ITEM NUMBER INVALID
168
     PCAT MUST BE C, D, F, S, OR/
      DTO RQN ON FILE W/SAME DOC NR
169
170
      OVRCD REQUIRED FOR PARTIAL ISSUE
      X31/2 ALREADY EXIST W/SAME DOC NR
171
172(I)X91/X92 BAS RCD SCRATCH AS DUPE
173(I)X31 DROPPED-REPT 3M OFFLINE
174(I)COMP 3M RCD DROPPED ON SAME DN
175
      RI AND ISSUING UTC INCOMPATIBLE
176
      RECEIVING UIC INVALID
177(I)NW COSAL ITEM REST FM AUTO ISSUE
178
     MDC RQN IN FILE-CORRECT DN
179
     SERIAL NUMBER MANDATORY
180
     APL DEL IND/APL DESC IND INVALID
181
     ERRONEOUS ACTION CDE-MPAL IS SET
182
     ERRONEOUS ACTION CODE-NO MPAL
183(I)LOAD LIST PRODUCED TRANSACTION
```

APL DESC IND/SUP RIC INCOMPAT

189



```
190
      STOCK NUMBER NOT IN NBR FILE
191
     FREQUENCY FIELD IMPROPER
192
     INVALID USE OF 1 IN CC54 of X73
193
      DN IN RQN NOT OUTSTANDING AO
194
    REV TRN DID NOT MATCH DEMAND S/R
195
    DATE ITEM EST MUST BE NUMERIC
196
     NO MATCHING AO ON FILE
     AVCAL/LLQTY/FQTY/OSAEL NUM ONLY
197
198(I)PARTIAL CANCEL PROCESED THIS DN
     DEL/REV INDICATOR INVALID
199
      STOCK NUMBER SUPERSEDED
200
201(I)NSN CHANGED
202(I)COG CHANGED
203(I)UNIT PRICE CHANGED
204(I)ITEM CONDEMNED-USE PROHIBITED
205
     MATERIAL CONTROL CODE CHANGED
206
      SLC/SLAC CHANGED
207
     TUP MANDATORY FOR UI CHANGE
208
     SECURITY CODE CHANGED
209
      QUANTITY PER UNIT PACK CHANGED
210
     ITEM CENTRALIZED-OLD UI REQD
211(I)DEMILITARIZATION CODE CHANGED
212
     TUP CANNOT EXCEED 99,999.99
213(I)UNIT OF ISSUE CHANGED
214(I)USE ALL OLD-THEN NEW. DONT MIX
215(I)ICP HAS WITHDRAWN INTEREST IN FSN
216(I)SN CHG/SHOULD INPT LOCAL CHG NOT
217(I)REPAIRABLE MCC CHANGED
218
219
      SHELF LIFE CODE MUST MATCH TABLE
220
      SECURITY CDE MUST MATCH TABLE
221
     DEC LOC U/I MUST BE 4 OR LESS
222
     CONV FACTR MUST BE NUMERIC
223
     CANNOT DEL-X31SUB RCD REQ X91/2
224
    DEMIL CODE MUST MATCH TABLE
     SHELF LIFE MUST MATCH TABLE
225
     ERROR IN INPUT DI X52
226
227
    CN OLD-NEW NSN MUST BE UNEQUAL
228 DEC LOC U/P INVALID
    INVALID FOR MSP OFFLOAD
229
230
     THIS DI REQUIRES NSN/DN
231
     INDICATOR MUST BE BLANK, 1 OR 2
232
     CANNOT DELETE OUTSTANDING RQN
233
    TCI 25-29 IS NEGATIVE
```

STK SER NR ILLEGAL FOR THIS DI

RQN INCOMPLETE-AWAITING MRF UP

236(I)X91/X92 DLTD FM RQN BY NON-MDC 237 RCD UNDER INVENTORY TRN ILLEGAL

234

235



```
238
      ACTION CD ILLEGAL-1.2.3. BLK ONLY
 239
 240
      BAS RQN IS X31/X32/X91/X92
 241
      INVALID CARD CODE
 242
      CARD CODE/CARD DATA INCOMPATIBLE
 243
      TDAT ILLEGAL-MUST BE CURRENT FY
 244(I)HIGH MONEY VALUE TRANSACTION
245
      EXPEND CODE MUST BE 1 THRU 6
 246
      MCC MUST BE F OR P
247(I)QTY ON HAND-NO MRE LOCATIONS.
248
     MDSN TO BE DELETED NOT IN MRF
249
      WORK CENTER INVALID
250
     PROCUREMENT ITEM ID NR INVALID
251
     EST DATE AVAILABLE INVALID
252(I)CANC REQ-MAT HAS BEEN SHIPPED
253
      PDO INVALID
254
      INVALID CODE X39 CC57
255
     LISTING SELECTOR IND INVALID
      CASH SALE CODE INVALID
256
257
258
     RECORD SELECTION IND INVALID
259
     DTO TAKEN UP AS STK-X31 REQUIRED
260(I)FC CHGD TO MATCH FSC/GRP TBL
261
262
263
      AT/RTC/COSAL/AVCAL, INCOMPATIBLE
264
265
      STK SERIAL NR WITH RTC 4 ILLEGAL
266
      INV ITEM OFFLINE-CH QTY TOO BIG
267
      BUIC NOT IN THE BUC TABLE
268
269
     BUIC MUST BE UICOWN
270 COG/SIGNAL CODE INCOMPATIBLE
      JCN INVALID
271
272
      TUIC NOT IN NIF TABLE
273(I)REPAIRABLE MCC X - REFLG NOT SET
274
     WORK UNIT CODE INVALID
275
     FSCM INVALID
276
     ISSUE DIVISION CODE INVALID
.277
     INVALID SMIC
278
279
     MATL OFFLOAD IND MUST BE M OR A
280
     REPORT INDICATOR INVALID
281
      SERIAL NO. CTL IND MUST BE O OR /
     RQN ON FILE. DI X77 ILLEGAL
282
283
     NORS MUST HAVE TTDIV IN 67-68
284
285
     CONDITION PREVENTS MRF DELETION
286(S)TRN/MRF COG DIFF. LOCAL CN REQ'D
```



```
287(I)REC. QTY LESS THAN REQ QTY - NC SC
288(I) NEG SUB RCC QTY SET TO 131,071
289
      SUB SYSTEM DI ONLY
290
      DI NOT IN VAL JUMP TABLE
      DI NOT IN TON JUMP TABLE
291
292
     DI NOT IN MRF JUMP TABLE
293
      DI NOT IN NBR JUMP TABLE
294
      DI NOT IN FIN JUMP TABLE
      DLUI/CF/NEW UI INCOMPATIBLE
295
296
297
298
     DI 073/076 EQUAL O MONTHS BASE
299
    098/076 INCOMPAT. WITH PRIMARY DI
      CANNOT PROC DUP/NON-EXISTANT DUE
300
      9M COG WITH RTC 4 ILLEGAL
301
      ERRONEOUS SPEC HANDLING CODE
302
303(I)NO MATCH IN RQN FOR MRF DUE
     ADVICE CODE MUST BE NUM/ALPHA
304
      EXACT DUPE ON RQN FILE - DESTROY
305
306(I)DUPE RQN ASHORE-VERIFY RQN FILE
     FAILED PART INDICATOR INVALID
307
      DUPLICATE RECORD INDICATOR INVALID
308
      REVERSAL INDICATOR INVALID
309
310
      SERVMART COG MUST BE 9G
311(I)RQN FOR REPAIRABLE PROCESSED
312
313
314
315
316
317
318
```



## APPENDIX F SUADPS DETAILED MONTHLY OUTPUT REPORTS

Report	
Number	Report Title
<b>Ø</b> 3	Financial Inventory Report (FIR)
21	Commanding Officer's Budget Report (Current FY)
21	Departmental Budget Report (Current FY)
21	Divisional Budget Report (Current FY)
22	Listing of End Use Difference Be- tween Obligated and Expended Amount
23	Detail List of Prior Year's Trans- actions
24	Message Report of Credits (AS, AS (FBM) Tenders)
46	Availability Cost Report

## dditional Reports Generated with a Monthly Run (also known as SUMMARIES)

Report Number	Report Title
Ø7	ROV A Summary (NAVCOMPT Form 176 Simulated)
Ø7 Ø7	ROV A Summary (Detail Listing) ROV A Summary (Credit) NAVCOMPT
<b>Ø</b> 7	Form 176 Simulated ROV A Summary (Credit) Detail List- ing
<b>Ø</b> 7	ROV A Summary (End Use) NAVCOMPT Form 176 Simulated
Ø7	ROV A Summary (End Use) Detail List-ing
Ø7	ROV A Summary (End Use Credit) NAV- COMPT Form 176 Simulated
<b>Ø</b> 7	ROV A Summary (End Use Credit) Detail Listing
<b>Ø</b> 8	ROV B Summary (NAVCOMPT Form 176 Simulated)
Ø8 Ø8	ROV B Summary (Detail Listing) ROV B Summary (Credit) NAVCOMPT Form 176 Simulated
<b>Ø</b> 8	ROV B Summary (Credit) Detail List-ing
Ø8	ROV B Summary (End Use) NAVCOMPT Form 176 Simulated
Ø8	ROV B Summary (End Use) Detail List- ing



Ø8	ROV B Summary (End Use Credit)
	NAVCOMPT Form 176 Simulated
Ø8	ROV B Summary (End Use Credit)
	Detail Listing

## Budget OPTAR Reports (NAVCOMPT 2157)

	Report Number	Report Title
•	41 42 47	Supported Units Reimbursable OPTARs Own Ship's

## Additional Reports Generated with a Monthly Run

## SAC 207 Reports and APA for Report 03

	Report	
	Number ·	Report Title
	<b>Ø</b> 3	NCA Educadal Tarrestone Barret
	· · · · · · · · · · · · · · · · · · ·	NSA Financial Inventory Report
	<b>Ø</b> 3	APA Financial Inventory Report
	<b>Ø</b> 4	NSA Receipt Report
	<b>Ø</b> 6	2074 Report for Charges
	<b>Ø</b> 6	2074 Report for Credits
•	<b>Ø</b> 6	Listing of NSA Expenditures for
		Charges
	<b>Ø</b> 6	Listing of NSA Expenditures for
<b>A</b>		Credits
	<b>Ø</b> 5	Transfer Report - OSO Under \$100.00
	Ø5	Transfer Report - OSO Over \$100.00
	20	Unfilled Order Summary
	34	Inventory Adjustments Listing
	48	NSA Financial Summary

### Miscellaneous Reports

Report Number	Report Title
10	Supply Effectiveness Report (4000) Weekly
36	Bureau of Medicine and Surgery
57	Transaction Item Reports (Monthly) FMSO Demand Reporting (Monthly)



#### APPENDIX G

## USS DIXON'S FINANCIAL ACCOUNTING & RECONCILIATION GUIDE



## COMMANDING OFFICER USS DIXON (AS-37) FPO SAN FRANCISCO, CAUFORNIA 96648

DIXONINST 7042.1D 4837:07:gdf 7 NOV 1981

#### USS DIXON INSTRUCTION 7042.1D

Subj: Financial records; reconciliation of

Ref: (a) COMSUBPACINST 7330.2 (series)

Encl: (1) Financial Accounting and Reconciliation Guide

1. <u>Purpose</u>. To promulgate procedures for the maintenance and reconciliation of departmental/divisional financial records.

#### 2. Cancellation. DIXONINST 7042.1C

3. <u>Background</u>. It is mandatory that financial records be properly maintained and reconciled with the official computerized accounting records maintained by the DIXON Stock Control Division End-Use Financial Section to ensure proper management of OPTAR Funds. Enclosure (1) provides information to aid in the understanding of the Shipboard Uniform Automatic Data Processing System (SUADPS) Report 21 and reconciliation process. Questions regarding this subject should be addressed to the DIXON Stock Control Division, End-Use Financial Section. (Phone 225-7185)

#### 4. Action

- a. Department Heads/Division Officers are responsible for the proper utilization of OPTAR Funds allocated to them and will ensure RPPOs conduct reconciliations in accordance with the provisions of this instruction.
- b. RPPOs will utilize enclosure (1) to reconcile divisional records with each monthly SUADPS Report 21. Upon completion of the reconciliation, and within five working days after receipt of the Report 21, the Report 21 Balance Sheet will be returned to the End-Use Financial Section of Stock Control.

R. L. WOLFE

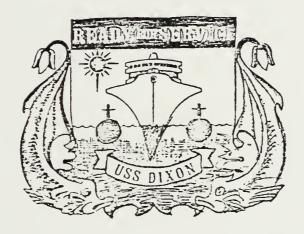
Distribution: (DIXONINST 5605.1D)

List I (Case A) All RPPOs

Copy to: COMSUBPAC (Code 41)



# U.S.S. DIXON AS-37



FINANCIAL ACCOUNTING

AND

RECONCILIATION GUIDE

THE NAVY'S FINEST SUBMARINE TENDER

Enclosume (1)



## TABLE OF CONTENTS

PART	I	REQUISITION/OPTAR LOG MAINTENANCE	PAGE	1
PART	II	BUDGET OPTAR REPORT 21	PAGE	7
PART	III	RECONCILIATION PROCEDURES	PAGE	13
PART	IV	OPTAR LOG/REPORT 21 BALANCE SHEET	PAGE	20
PART	V	SUBMARINE ACCOUNTING SUPPLEMENT	PAGE	26



# PART I REQUISITION/OPTAR LOG MAINTENANCE

APPLICABILITY: DIXON



#### REQUISITION/OPTAR LOG MAINTENANCE

- 1.) THE REQUISITION/OPTAR LOG WILL BE MAINTAINED LEGIBLY, IN INK, FOR EACH OPERATING TARGET (OPTAR) RECEIVED.
- 2.) THE LOG IS BROKEN DOWN INTO TWENTY THREE BLOCKS. A BRIEF EXPLANATION OF EACH BLOCK IS COVERED BELOW:
- BLOCK 1 UIC THE UNIT IDENTIFICATION CODE OF THE SHIP OR ACTIVITY. (R20132 FOR DIXON)
  - 2 WORK CENTER A FOUR POSITION (2) ALPHA (2) EITHER ALPHA OR NUMERIC; OR THREE POSITION (2) NUMERIC (1) ALPHA CONFIGURATION ASSIGNED TO EACH DIVISION OR WORK CENTER. (I.E., SSO7 IS ASSIGNED TO THE S-7 DIVISION)
  - 3 JSN JOB SEQUENCE NUMBER A FOUR POSITION (4) EITHER ALPHA OR NUMERIC CONFIGURATION. ASSIGNED TO A WORK REQUEST OR REPAIR PART REQUEST. NOT APPLICABLE TO CONSUMABLE MATERIAL REQUEST EXCEPT ROV I CONSUMABLE WHICH IS ALWAYS 2000.
  - 4 JULIAN DATE THE JULIAN DATE OF THE REQUISITION OR POSTING DATE FOR OTHER TRANSACTIONS WILL BE POSTED IN THIS COLUMN. THE FIRST DIGIT OF THE DATE SIGNIFIES THE CURRENT CALENDAR YEAR (I.E. 9142. "9" IS FOR 1979) NOT THE FISCAL YEAR, WHICH STARTS ON 1 OCTOBER OF EACH YEAR.
  - 5 SERIAL NO. A FOUR POSITION ALL NUMERIC OR FIRST POSITION ALPHA OR NUMERIC OR VICE VERSA AND LAST TWO NUMERIC CONFIGURATION. THE FIRST TWO POSITIONS SIGNIFY THE DIVISION AND THE LAST TWO, THE NUMBER OF THE REQUEST. IF MORE THAN 99 REQUISITIONS ARE REQUIRED IN THE SAME DAY, USE THE NEXT DAY'S JULIAN DATE FOR THE REST OF THE REQUISITIONS TO MAINTAIN DOCUMENT SEQUENCE.
  - 6 COG THE TWO CHARACTER NUMERIC & ALPHA CODE DESIGNATING A SEGMENT OF MATERIAL FOR MANAGEMENT BY A SPECIFIC INVENTORY MANAGER, AND THE FUNDING INVOLVED (I. E. ODD DIGIT FOR CHARGEABLE MATERIAL, EVEN DIGIT FOR NON-CHARGEABLE MATERIAL).
  - 7 STOCK NUMBER SELF EXPLANATORY.
  - 8 DESCRIPTION SELF EXPLANATORY.
  - 9 PRI THE PRIORITY IS A TWO CHARACTER NUMERIC CODE ASSIGNED TO THE REQUISITION WHICH INDICATES THE MISSION OF THE REQUISITIONER AND THE URGENCY OF NEED FOR THE MATERIAL.
  - 10 FC FUND CODE A TWO CHARACTER NUMERIC/ALPHA CODE USED TO CITE THE APPROPRIATE ACCOUNTING DATA ON REQUISITIONS (I. E. MC FOR CONSUMABLE MATERIAL, MR FOR REPAIR PART).



- BLOCK 11 UI UNIT OF ISSUE SELF EXPLANATORY.
  - 12 QTY QUANTITY.
  - 13 UNIT PRICE CAN BE OBTAINED FROM CURRENT SUPPLEMENTAL STOCK STATUS AND LOCATOR LISTING (SSLL) OR MRF.
  - 14 TOTAL PRICE THE SUM OF TOTAL QUANTITY REQUISITIONED TIMES THE UNIT PRICE.
  - 15 & 16 WILL BE COVERED IN RECONCILIATION PROCEDURES FOR OPTAR LOG.
  - 17 AVAILABLE BALANCE THE AVAILABLE BALANCE OF THE TOTAL ALLOCATION.
  - 18 DATE RECD THE JULIAN DATE WHEN THE MATERIAL IS RECEIVED.
  - 19 RECD FROM ACTIVITY WHO ISSUED THE MATERIAL ( I. E. DIXON, NSC).
  - 20 & 21 BALANCE BROUGHT FORWARD FROM PROVIOUS PAGE AND BALANCE CARRIED FORWARD.
  - 22 QUARTER OF FISCAL YEAR.
  - 23 PAGE NO. WILL BE NUMBERED CONSECUTIVELY FROM NUMBER ONE ON.



			* 00.0	1*00 000 61	+00.000,21	3,493.52 -	8,506.48		8,506.48 *		* 00.0		8,506.48*+	3,493.52 +	12,000.00		12,000.00 *			* 00.0					
					Allocation to date	Total Obligations	Available Balance				OR		igations		Allocation to date							Oblig	(Page 1 of OPTAR Log)		
* 00.0	•	500.00*+		37.50 +	75.00 +	344.00 +	200.00 +	250.00 +	35.20 +	300.00 +	130.00 +	37.50 -	300.00 +	176.00 +	425.40 +	67.50 +	+ 00.005	85.00 +	36.40 +	3.84 +	3,493.52	3,493.52 *		* 00.0	
																							Available B	(Page 1 of OPTAR Log)	
	*00.0	55 10	0.0	7.50	5.0	44.00	0.0	50.0	5.20	00.0	30.00	7.50	0.0	76.00	0.00	425.4	7.5	0.0	2.00	6.48	φ.		8,506.48 *		* 00.0

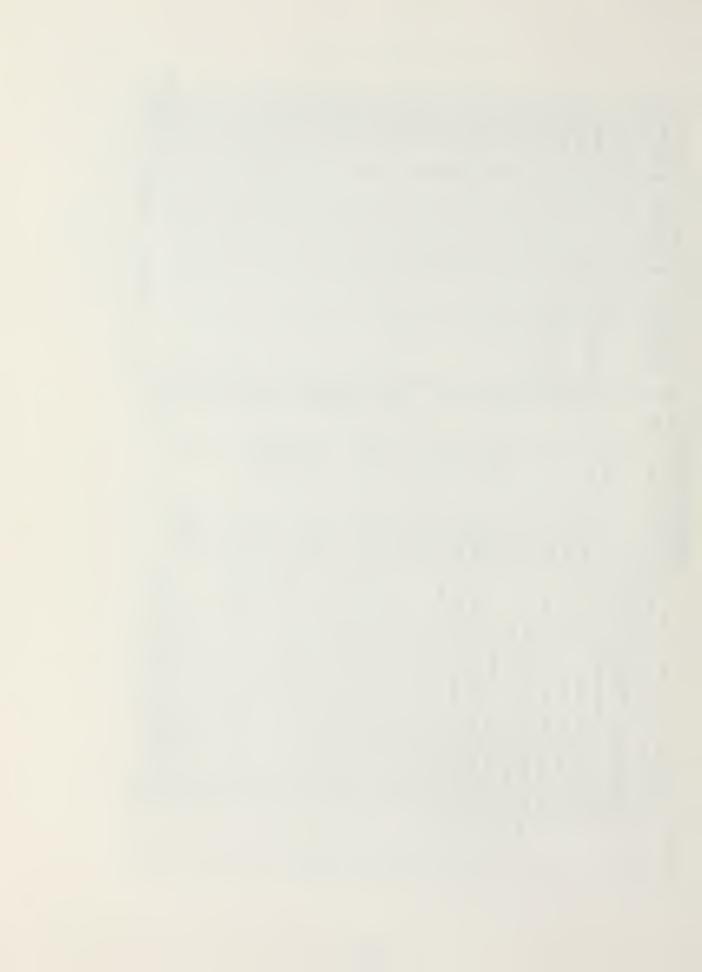


#### ADDING MACHINE TAPES

TWO ADDING MACHINE TAPES WILL BE RUN FOR EACH PAGE IN THE OPTAR LOG AND ATTACHED TO THE BACKSIDE OF THE RESPECTIVE OPTAR LOG PAGE. THE FIRST TAPE, WILL CONTAIN A DECLINING BALANCE OF ALL TRANSACTIONS CONTAINED ON THE PAGE, STARTING WITH THE AVAILABLE BALANCE BROUGHT FORWARD FROM THE PREVIOUS PAGE. THE SECOND TAPE WILL TOTAL ALL OBLIGATIONS, CREDITS, AND ADJUSTMENTS MADE TO DATE. DO NOT INCLUDE ALLOCATION TRANSACTIONS IN THIS FIGURE. SUBTRACT THE TOTAL OF THE SECOND TAPE FROM THE PRESENT OPTAR GRANT; IF BOTH TAPES AGREE THEN THE PAGE HAS BEEN BALANCED CORRECTLY. NO MATTER HOW ACCURATELY THE LISTINGS ARE PROCESSED, IF THE OPTAR LOG PAGES ARE NOT BALANCED CORRECTLY, THE CORRECTED COMPUTER TOTAL OBLIGATIONS WILL NEVER AGREE WITH THE OPTAR LOG TOTAL OBLIGATIONS LINE ON THE REPORT 21 BALANCE SHEET.



İ	DATE			1																		-		1	1		i	57	
	AVAILABLE BALANCE		10,000 00	9.50000	064776	9 424 90	9.397 40	9323 40	8979140	8,778 40	8528 40	8 493120	8 49320	8,493,20	8,19320	8.43.20	8,06320	8 100 70	7,800,70	762470	9,624 70	9 199 30	9 131 80	8 (31 %)	\$ 545.80	8.51032	8 504.48	8,506,48:PA	ALLOCATION - 12,000.00 11
	ADJUSTMENT																												SO ALLOCATION.
	FROM REPORT 21 MONTH, DA. GTY, AMT			SEE 9297- 6719			SEE 4286- 6714					m application and a second seco																	12 Oz 3 - QUARTER FY
907	TOTAL			500 00	55 10	10	37 50	7500	344 00	200 00	250(0	35 20	N/C	2/2	30000	NC	13050	(37) 50	300(0	17600		425 40	67 50	500,00	97.50	36.48	3,34	3,493 52	
/OPTAR	D CNIT		10,000	20000	5 51	2 00	25.00	3	34400	200 30	25000	4 40	00/34/15	- N	3000	1750	65,00		350.55	8800	2,00000	125 40	22 50		17:00	12/6	64		
REDUISITION / OPTAR LOG	PRI FC UI QTY	PAGE		13 MU EA 69999	13 116 91 10	13 MC CN 5	OF MR EA 3	C6 MS E1 150.	U6 MC 12 1	13 MC EA 1	CE MC FA 1	13 MC. BX 8	OF YE EA 2	13 A EA 4	OC ME EA 1	UL 16 EA 2	OF IME EA 2		13 MC FA 1	COMPEA 2		13 MC EA 1	06 MS EA 3.	DI	13 INC EX 5	13 M2 Ex 3	13 MC KO 6		
	DESCRIPTION		ON 1 00179	RENTAL	PAINT	THIMMER	EREAKER	CABLE	PAFER	VARIOUS	SWITCHES		VALYE	9-485			PUMOMETERS	N 2276-6701	VARICHIS	1	& ALLCCATION		NALIYE PLYSHIPM	MATIEN 4174-61	1250-1	TITLE VINYL	FRESS.	NEXT PASE	
	STOCK NO.	BALANCE BROUGHT FORWARD FROM PREVIOUS	1ST GTR ALLOCATION 100179	OP XEROX	4274 6702 96 8010-60-286-7744	8010-00-242-2089	4276 (724 9N 5425 00-441-8698	6145 00-110-2272	6706 99 EPA-PELL & HOWELL	4278 6707 9G MVC-5UPMART	9279 4708 9G D.P. GRAYPAR ELEC	4709 11 0102-LF 013-48410 1348M CAKDS	1283 6710 41 1355-01-031-7628 VALVE	4284 6711 01 0550-1P-485-0074 P-485	UNDX 9712 941 5835- 60- 124- 8607 7APE XUNN	4286 671312F 3345-00-343-1053 H-VERUNIANE	6714 11 6605 00-819-3897 CLINOMETERS	CANCELLATION A DI 8276-6701	6716 99 MVD-SERVMAKT	6717 111 4470-00-107-1265 DISC ASSY	AUDITIONAL 151 OIZ ALLOCATION	C718 96 PPA-GRAYEAR CIE: 200W GEN	19247 6719 14 4470-00-267 4178 WALVE PLISHEN OG MIS EA	ADDITIONAL OFFIGATION 4774-61	9299 6720 11 0108-1. F-501-2308 1250-1	9301 6721 90 7220-00-543-7157 THE VINYL	9301 6722 90 7510-co-266-6710 TAPE	BALANCE CARRIED FORWARD 10 NEXT	
	C CEN JSN JULIAN SERIAL COG	ANCE BROW	9274 6700	9274 CTOI 99 OF - XEBOX	4 6702 99	9274 6703 90 8015-00-24	16 LJ04 9N	9277 6705 92 6145 00-1	8 6706 99	29 LUZ 8	19 18708 99	1 6709 11	3671040	10 11 01	1 6712 9N	SG 6713 2F	6714 III		13 67 16 196	HT 7129		16 6718 96	17 6719 1H	8	19 6730 11	01 6721 90	21 6722 90	ANCE CARR	
AS-37	JSN COLLY	BAL	927	937	43.1	927	427	937	4278	427	92.7	1381	1123	1428	1338	418	9226	19290	9293	4343	9294	9650	P. C. C.	9398	436	936	1930	MAI	-1 -1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
DIXON AS-37	C CERK		i i	-			!						-					*		-									



	RECD FAOR			-								_		9		 			-		 		12	i
	BATE											1											PAGE NO	ल
	AVAILABLE	8,506 48	8.498 16	8375 56	8,275 56	8,100 56														,				ALLOCATION: 12,000.00 111
	ADJUSTMENT																							
	FROM REPORT 21 MONIN G;I GTY,AMT																							77 O2 3 4 QUARTER FY 20
AR 106	TOTAL PRICE	3, 493 52	32 8 32	65 122 40	00 001 00	25 175 00		1													_1_			
/0PT	UNIT		8	30 65	0001	175(20											_					_		1
REQUISITION / OPTAR LOG	DESCRIPTION PRIFC UI OTY	OM PREVIOUS PAGE	BAG PLASTIC 13 MC BX 1		VARIOUS 13 MC EA 1	CALCULATOR OG ME FA 1																	NEXT PAGE	
**************************************	CEN USN JATE SERIAL COS STOCK NO.	BALANCE BROUGHT FORWARD FROM PREVIOUS PAGE	9310 6723 90 8105-00-655-8285	9320 6724 99 6210-00-115-6355	9325 6725 99 MVO-SUBMART	9326 6726 9G EPA - MONKEE																	BALANCE CARRIED FORWARD TO	
10N AS-37	CEN USN TO	ВА	- 6	43	- 6	- di																	BA	* [ [ ] ] - [ ] [ ] ( ] ( ] ( ] ( ] ( ] ( ] ( ] ( ]



## PART II BUDGET OPTAR REPORT 21

APPLICABILITY: DIXON

SUBGRU FIVE UNITS



#### BUDGET OPTAR REPORT 21

- 1. INTRODUCTION: REPORT 21 IS A DETAILED BREAK DOWN AND SUMMARY OF A SUMMORIFD UNIT'S/DIVISION'S REQUISITIONS AND CURRENT FINANCIAL STATUS. THE REPORT IS PRINTED AND UPDATED WEEKLY. STOREKEFFERS/RPFOS SHOULD USE REPORT 21 TO RECONCILE DIFFERENCES BETWEEN THEIR OFTER LOG AND THE MASTER FINANCIAL RECORDS MAINIAURED BY THE DIXON STOCK COMPROL END-USE FINANCIAL SECTION. THE REFORT IS DIVIDED INTO TWO SECTIONS, NAMELY FINANCIAL AND DETAILED LISTING.
- 2. FINANCIAL. ACROSS THE TOP OF REPORT 21 IS A SUMMARY OF THE UNIT'S/DIVISION'S FINANCIAL STATUS. THE HEADINGS AND LARRIS OF THIS SUMMARY ARE DEFINED AS FOLLOWS:
- A. OP. PAL. (OPENING BALANCE) THE FIGURES THAT WERE CURRENT AT THE BEGINNING OF THE REPORTED WEFK (CLOSING PALANCE OF LAST REPORT).
- B. CL. BAL. (CLOSING BALANCE) THE FIGURES THAT ARE CURRENT AT THE END OF THE REPORTED WEEK (WILL BE OPENING BALANCE OF NEXT REPORT).
- C. ALLOCATION THE UNIT'S/DIVISION'S OPTAR GRANT, FISCAL YEAR TO DATE. ANY CHANGES WILL BE REFLECTED IN THE DIFFERENCE BETWEEN THE OPENING AND CLOSING BALANCES UNDER THIS HEADING. THIS PIGURE SHOULD AGREE WITH OPTAR GRANTS RECEIVED FROM COMSUBGRU FIVE FOR SUPPORTED UNITS OR DEPARTMENT HEADS FOR DIXON DIVISIONS.
- D. OBLIGATIONS THE TOTAL DOLLAR VALUE OF ALL OUTSTANDING REQUISITIONS FOR THE CURRENT FISCAL YEAR.
- E. YEAR TO DATE EXP. THE TOTAL DOLLAR VALUE OF ALL RECEIPTS ON CURRENT FISCAL YEAR REQUISITIONS. WHEN A RECEIPT IS PROCESSED FOR AN OUTSTANDING PEQUISITION, THE DOLLAR VALUE INVOLVED MOVES TO THIS HEADING FROM THE OBLIGHTICES COLUMN. ISSUES FROM DIXON STOCK ARE ALSO INCLUDED UNDER THIS HEADING.
- F. GROSS ADJ. OBL. THE SUM OF THE OBLIGATIONS AND YEAR TO DATE EXP. HEADINGS.
- G. AVAILABLE BAL. THE DIFFERENCE BRIMMEN THE ALLOCATION AND GROSS ADJ. OBL. HEADINGS. A "CR" AFTER THIS FIGURE INDICATES A DEFICIT PALANCE.



- 3. DETAILED LISTING: THE DETAILED LISTING CONFAINS ALL TRANSACTIONS THAT AFFECT REQUISITIONS INSTITUTED BY THE UNIT/DIVISION. THE TRANSACTIONS ARE IDENTIFIED BY DOCUMENT IDENTIFIERS (DI'S) WHICH APPEAR UNDER THE "D/I" HEADING ON THE FAR LEFT OF THE MISTING. THE DI'S ARE DEFINED AS FOLLOWS:
- A. AMA AN OBLIGATION FOR A SICCK MITHERED ITHM FOR WHICH A REQUISITION HAS BEEN TRANSMITTED TO A SUPPLY ACTIVITY OTHER THAN DIXON. THE QUANTITY LISTED UNDER THE "QIY" HEADING EXPRESENTS THE TUTAL QUANTITY ORDERED. IF THE QUANTITY ORDERED IS LISS THAN THAT ORIGINALLY REQUESTED, CHECK THE REPORT FOR AN ISSUE (X31) FOR THE REMAINING QUANTITY. IF NOTE APPEARS BY THE NEXT LISTING, CONTACT THE DIXON END-USE FINANCIAL SECTION.
- B. AOD AN OBLIGATION FOR AN ITEM IDENTIFIED BY OTHER THAN AN NSN OR PART NUMBER (i.e. NAVY ITEM CONTROL NUMBER (NICN) OR DOD AMO CODE ORDERING NUMBER).
- C. AOE AN OBLIGATION FOR AN ITEM IDENTIFIED BY A PART NUMBER OR FOR SERVICES (i.e. OPEN PURCHASES, MONEY VALUE ONLY TRANSACTIONS SUCH AS SERVMART RUNS AND ITEMS BOUGHT FROM A COMMERCIAL SOURCE). THE QUANTITY LISTED NORMALLY WILL HE ONE, UNLESS THE OBLIGATION IS FOR CONTINUING SERVICES, IN WHICH CASE THE QUANTITY SHOULD BE C9999. IF REPORT 21 LISTS AN "AOE" WITH ANY QUANTITY OTHER THAN THE TWO INDICATED ABOVE, CONTACT THE DIXON EDD-USE FINANCIAL SECTION.
- D. AE A CANCELLATION FOR A PREVIOUSLY LISTED OBLIGATION (EITHER "ACA", "AOD" OR "ACE"). THE CREDITED MONEY VALUE WILL BE LISTED UNDER THE "TOTAL PRICE" HEADING ON THE LISTING AND WILL BE TAKEN UP AS A CREDIT IN THE OPTAR LOG THROUGH PROPER COMPLETION OF THE RECOmmiliation process. It is important that "AE "CANCELLATIONS BE PROCESSED IN A TIMELY MANGER TO INSURE NEW REQUISITIONS ARE SURMITTED IF THE MATERIAL REQUIPERENT STILL EXISTS. THE OPTAR LOG CREDIT ADJUSTMENT AND MATERIAL RECORDER MUST BE ACCOMPLISHED PRICE TO THE END OF THE FISCAL YEAR TO PRECLUDE LOSS OF FUNDS.
- E. X31 ISSUE FROM TENDER STOCK, QUANTITY AND TOTAL PRICE SHOULD BE COMPARED TO THE OPTAR LOG EMIRY. THESE FIGURES COULD DIFFER FROM THE OPTAR LOG FOR A MAMBER OF REASONS, THE MOST COMMON OF WHICH ARE:
- (1) TOTAL PRICE DIFFERENCE BECAUSE THE ITEM IS CARRIED ON THE COMPUTER AT A PRICE DIFFERENT FROM THE ONE SHOWN ON THE 1250-1.



- (2) ISSUED QUANTITY IS MORE THAN ORDERED. OFTEN THERE IS A MINIMUM ISSUE QUANTITY. FOR EXAMPLE, 46 OF AN ITEM WERE ORDERED, WITH A UNIT OF ISSUE OF EA; THE ITEM IS PACKAGED 50 TO A BOX, IN WHICH CASE IT IS MORE PRACTICAL TO ISSUE 50 THAN TO BREAK UP THE BOX.
- (3) ISSUED QUANTITY IS LESS THAN INDICATED ON THE OPTAR LOG. THE UNIT PACK CONCEPT CAN ALSO APPLY HERE, BUT IN MOST CASES THE DIFFERENCE WILL RESULT BECAUSE OF A PARTIAL ISSUE. THE RPPO SHOULD CHECK TO SEE IF A REQUISITION WAS PASSED USING THE SAME DOCUMENT NUMBER FOR THE REMAINING QUANTITY. THIS WILL BE INDICATED BY D/I "AOA". IF THE REQUISITION DOES NOT SHOW BY THE NEXT WEEKLY REPORT 21, EITHER THE REMAINING QUANTITY WAS CANCELLED (COMMON WHEN DEALING WITH THE TENDER'S LOCAL STOCK NUMBERS, AS THESE NUMBERS ARE NOT RECOGNIZED BY NAVAL SUPPLY CENTERS) OR A MISTAKE WAS MADE. CHECK WITH DIXON END-USE FINANCIAL SECTION FOR RESOLUTION.
- (4) THE REQUISITION WAS FOR A SUBMART RUN. IN THIS CASE, AN X31 WILL BE LİSTED UNDER THE SAME DOCUMENT NUMBER FOR EACH INDIVIDUAL ITEM RECEIVED AT THE TENDER SUBMART. BE SURE TO TOTAL ALL X31'S UNDER THE SAME DOCUMENT NUMBER BEFORE COMPARING WITH THE OPTAR LOG. NOTE: DUE TO SUADPS PROCESSING PROCEDURES, IT IS POSSIBLE FOR X31'S FOR DIFFERENT INDIVIDUAL ITEMS USING THE SAME DOCUMENT NUMBER TO BE LISTED ON MORE THAN ONE REPORT 21. IT IS THEREFORE IMPORTANT TO RETAIN THE SUBMART SHOPPING LIST AND ADDING MACHINE TAPE FOR REFERENCE.
- (5) AN X31 COULD ALSO BE A CREDIT VALUE, INDICATING REIMBURSEMENT IS BEING MADE FOR A PREVIOUS ERRONEOUS CHARGE.
- F. X50 INDICATES AN INCREASE OR DECREASE IN A UNIT'S/DIVISION'S OPTAR GRANT AND POSTS THE CHANGE TO THE "ALLOCATION" HEADING IN THE FINANCIAL PORTION OF THE REPORT. THE COMPUTER ALSO RECOMPUTES THE "AVAILABLE BALANCE" WHEN THIS D/I IS LISTED. AN ENTRY SHOULD BE MADE ON THE OPTAR LOG ADJUSTING OPTAR GRANT AND AVAILABLE BALANCE.
- G.  $\underline{x71}$  A RECEIPT FOR AN ITEM ORIGINALLY OBLIGATED UNDER D/I "AOA" OR "AOD". THE FOLLOWING POSSIBILITIES EXIST WHEN A D/I "X71" IS INDICATED:
- (1) THE PRICE AGREES WITH THE OPTAR LOG AND THE LISTING SHOWS NO DOLLAR VALUE ASSIGNED TO THE FAR RIGHT-HAND "ADJUSTMENTS" COLUMN. THIS IS THE MOST COMMON SITUATION AND THE DOLLAR VALUE IF THE TRANSACTION MERELY SHIFTS FROM THE "OBLIGATIONS" HEADING TO THE "YEAR TO DATE EXP" HEADING IN THE TOP FINANCIAL PORTION OF THE REPORT. NO ADDITIONAL CHARGES ARE INCURRED AGAINST YOUR OPTAR.



(2) THE QUANTITY IS LESS THAN THE ORIGINAL "ACA" OBLIGATION AND NO ADJUSTMENT IS INDICATED. IN THIS CASE, THE "X71" REPRESENTS A PARTIAL RECEIPT AND THE REMAINING QUANTITY WILL EITHER HAVE REEN LISTED IN A PREVIOUS REPORT OR CAN BE EXPECTED AT A LATER DATE. NO FINANCIAL ADJUSTMENT IS NECESSARY ON THE OPTAR LOG.

- (3) THE QUANTITY INDICATED IS LESS THAN ORIGINAL, "WAY" OBLIGHTON AND A PRICE ADJUSTMENT IS INDICATED. IN THIS CASE, THE "X71" REPRESENTS A FINAL RECEIPT AND THE DOLLAR VALUE OF THE ADJUSTMENT WILL BE APPLIED TO THE OPTAR LOG THROUGH PROPER COMPLETION OF THE RECONCILLIATION PROCESS. IT IS POSSIBLE THAT THE ADJUSTMENT VALUE WILL BE AN ADDITIONAL CHARGE, EVEN THOUGH THE FULL ORDER WAS NOT RECEIVED. THIS OCCURS IF THERE HAS BEEN A SIGNIFICANT PRICE INCREASE BEIMPEN THE TIME THE MATERIAL WAS ORDERED AND THE TIME IT WAS RECEIVED.
- (4) THE QUANTITY ACRIES WITH THE ORIGINAL "ACA" QUANTITY; HOWEVER, TOTAL PRICE IS DIFFERENT AND AN ADJUST TENT IS INDICATED. AGAIN, THESE ARE CAUSED BY PRICE CHANGES.

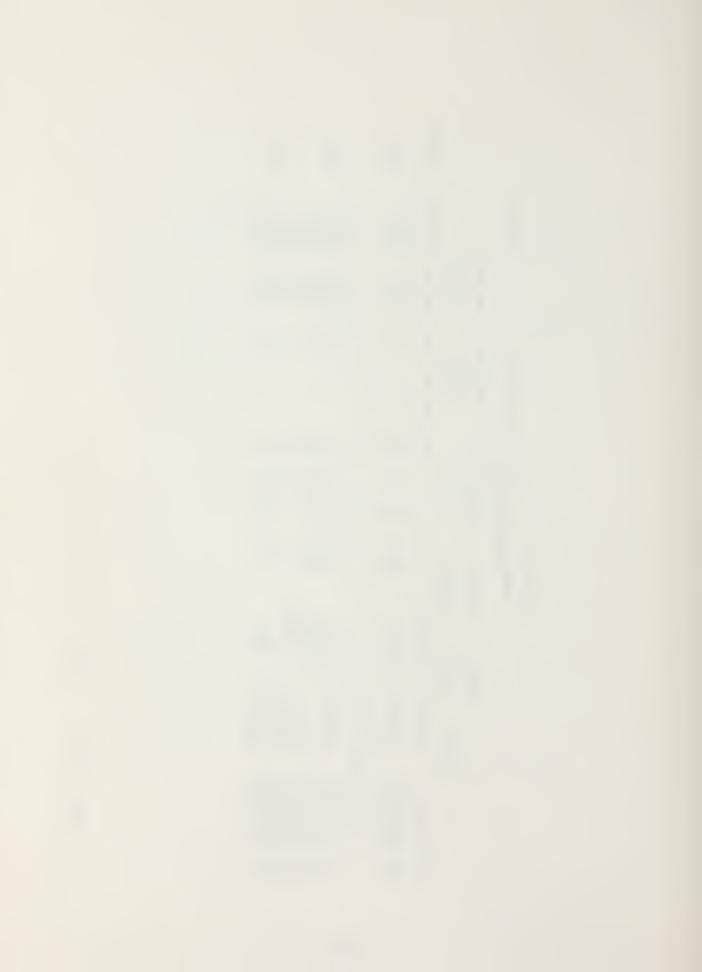
THE ONLY DOLLAR VALUES OPPOSITE AN X71 D/I WHICH AFFECT THE OPTAR BALANCE ARE THOSE DOLLAR VALUES LISTED UNDER THE ADJUSTMENTS COLUMN. TRANSACTIONS AFFECTING THE OPTAR LOG BALANCE WILL BE PROCESSED AGAINST THE OPTAR LOG BALANCE THROUGH PROPER COMPLETION OF THE RECONCILLIATION PROCESS.

- H. X73 A RECEIPT LIKE THE X71 FXCEPT THAT THIS INDICATES A RECEIPT ORIGINALLY OBLIGATED AS AN "AGE VICE "AGA OR "AGD". THE CUANTITY INDICATED SHOULD NORMALLY BE EITHER ONE OR C9999.
- I. X76 & X77 FINITURAL ADJUSTMENTS TO OBLIGATIONS WHICH WHRE FEROMED TO FAMOURAC ERRORDOUSLY AND ARE NOW BEING ADJUSTED AT FAADCPAC'S PROJECT. THERE ARE NUMEROUS REASONS FOR SUCH ADJUSTMENTS, INCLUDING ADDITIONAL CHARGES AGAINST O NUMBERS, CONTRACTS FOR WHICH INSUFFICIENT FUNDS WERE CRIGHTALLY CREGATED, OR THE RELEIPT OF CHARGES BY FUNDOPAC UNDER A DIFFERENT HUND CODE (IN WHICH CASE AN OST SENTING CREDIT IS NORMALLY APPLIED). THESE TRANSACTIONS WHILL BE PROCESSED AGAINST THE OPTAR LOG BALANCE THROUGH PROPER COMPLETION OF THE RECONCILIATION PROCESS.
- J. X78 AN INCREASE OR DECREASE IN THE OBLIGATION FIGURE FOR A CONTINUING CONTRACT. (ORIGINALLY OBLIGATED UNDER D/I "ADE", QUANTITY C9999).



	S+E			ADJUSTNEAT	.00 4.00CR		. 00 4.00cR		30,00CR
	TYPE OPTAR	BAL	9.0	TOTAL PRICE	500.00 10.00 340.00		\$00.00 10.00 340.00 250.00	36.00	00.00 80.00 80.00
		AVATIABLE BAL	8,056.00 9,384.00	UNTY PRICE	1,000.00 2.00 349.00		1,000.00 2.00 340.00 250.00	4.50	30.00 18.00 18.00
	6261	OBL		ZIZ			844	82 74	200
	202	CROSS ADJ OBL	1,944.00	ğ					
	10 Date	CROS	77	BUIC					
R20132	ERIOD E 132	e de la composition della comp		PRI	13		13 06 06	06	13.
Ş	FOR P	DAYTE	475.00 979.00	8	88		888	138	¥##
	N BUDGET REPORT FOR PERIOD DIVISION NAME 67 20132	YEAR TO DATE EXP	9.6	23	동공건		<u> </u>	石石	돭ᄌᄌ
5-37	JDGET ISTON			R	NDS		ND2		N35
USS DIXCH AS-37	DIVISION BUDGET REPORT FOR PERIOD ENDING 30 MJV 1979 DIVISION WAYE 67 20132	OBLIGATIONS	1,269.00	5	<b>៩</b> ៤៩		<u> </u>	<b>ដ</b> ជ	588
SSO	vio		10,000.00	DESCRIPTION	THE THE PANTER		THITHER PAPER SAITCHES	1346M CAROS TATE, SOUND	VALVE 1250-1 1250-1
		ALLOCATION		STOCK/PART NO.	8010002422089 DPA	ANSACTIONS	, 8010002422089 BPA O.P.	0102LF0134840 5835031248607 ALLOCACTON	4470002679178 0108LE5012508 0108LE5012508
			9.0 P. E.	SI	801( DPA	ILY TR	801( BPA 0.P.	28.2	001
				DOCUMENT NO.	R2013292746701 R2013292746703 R2013292786706	CONTRATIVE NORTHERY TRÁNSACTIONS	R2013292746701 R2013292746703 R2013292766706 R2013292796708	R2013292816709 R2013292846712 R2013292946700	R2013292976719 R2013292996720 R2013292996720
				I/a	X78 X71 X73		X71 X71 X73	7 E S	Z Z Z

RETORT 21 DATE 9334 PAGE



## 4. SPECIAL NOTES

- A. FUND CODE Y6: FUND CODE "Y6" TRANSACTIONS ARE LISTED ON THE REPORT 21, BUT DO NOT AFFECT THE OPTAR BALANCE. HOWEVER, STOREKEEPERS/RPPOS SHOULD BE ALERT FOR COG MIGPATIONS (i.e. 2N TO 1N OR VICE VERSA), WHICH MIGHT AFFECT THE BALANCE AND REQUIRE AN OPTAR ADJUSTMENT.
- B. MONTHLY REPORT: THE FINAL WEEKLY PEPORT 21 FOR EACH MONTH WILL BE DATED AS THE LAST DAY OF THE MONTH. THIS REPORT IS UNIQUE IN THAT IT NOT ONLY LISTS ALL WEEKLY TRANSACTIONS IN THE DETAILED LISTING PORTION, BUT ALSO PROVIDES A CUMULATIVE LIST OF ALL TRANSACTIONS WHICH WERE PROCESSED DURING THE MONTH.
- C. LOST REQUISITIONS: REQUISITIONS WHICH HAVE BEEN SUBMITTED AND DO NOT APPEAR ON THE REPORT 21 WITHIN ONE MONTH SHOULD BE INVESTIGATED TO DETERMINE THE REASON WHY THEY HAVE NOT BEEN PROCESSED.
- D. DLR: ITEMS WITH 7H, 7G, 7E, AND 7Z COG ARE CHARGEABLE MANDATORY TURN-INS (MTR). THE OPTAR FOR DIXON DLR IS MAINTAINED BY DIXON SUPPLY SUPPORT CENTER.



# PART III RECONCILIATION PROCEDURES

APPLICABILITY: DIXON

SUBGRU FIVE UNITS



# RECONCILIATION PROCEDURES

STEP I RECEIVE MONTHLY REPORT 21. NOTIFY THE DIXON END-USE FINANCIAL SECTION IF THIS REPORT IS NOT RECEIVED. COMPUTER LISTINGS SHOULD BE PROCESSED/RECONCILED AS THEY ARE RECEIVED MONTHLY, TO KEEP THE OPTAR LOG BALANCE CURRENT BY INCLUDING ALL PRICE ADJUSTMENTS AND COG MIGRATIONS DISCOVERED DURING THE MONTHLY RECONCILIATION PROCESS.

STEP II CIRCLE ALL Y6 FUND CODE TRANSACTIONS IN RED INK, ON THE REPORT 21 TO PREVENT FROM TAKING ACCIDENTAL ADJUSTMENTS WHILE WORKING THE LISTINGS. FUND CODE Y6 TRANSACTIONS DO NOT AFFECT THE OPTAR BALANCE UNLESS MIGRATION HAS OCCURRED.

STEP III SUPPORTED UNITS DRAW TWO LINES, TO FORM THREE COLUMNS, DOWN THE RIGHTHAND SIDE OF THE REPORT 21 AND LABLE THE COLUMNS MR, MC, AND OTHER. AS SUPPORTED UNITS ARE RESPONSIBLE FOR STRICT FUND CODE ACCOUNTING, ADJUSTMENTS WILL BE POSTED TO THEIR RESPECTIVE FUND CODE COLUMNS ON THE REPORT 21. CREDIT ADJUSTMENTS WILL BE CIRCLED TO DISTINGUISH THEM FROM DEBIT ADJUSTMENTS.

DIXON OPTAR HOLDERS DRAW ONE LINE, TO FORM TWO COLUMNS DOWN THE RIGHT-HAND SIDE OF THE REPORT 21 AND LABEL THE COLUMNS "+" AND "-". ADJUSTMENTS WILL BE POSTED TO EITHER THE "+" OR "-" COLUMN DEPENDING ON THE TYPE OF ADJUSTMENT TAKEN.

STEP IV COMPARE EACH REQUISITION ON THE REPORT 21 WITH EACH REQUISITION POSTED ON THE OPTAR LOG ON AN INDIVIDUAL REQUISITION BASIS:

- A. NO ADJUSTMENT REQUIRED IF THE ENTRY ON THE REPORT 21 MATCHES THE AMOUNT OBLIGATED IN THE OPTAR LOG AND THE QUANTITY ALSO AGREES, THEN SIMPLY CHECK-MARK THE REQUISITION ON THE REPORT 21 AND ENTER THE MONTH, THE DOCUMENT IDENTIFIER, THE QUANTITY AND THE TOTAL PRICE IN THE REMARKS COLUMN OF THE OPTAR LOG. EXAMPLE (10,AØA,5,\$25.00), 10 MEANS THE MONTH OF OCTOBER, THE AØA IS THE DOCUMENT IDENTIFIER, THE 5 IS THE QUANTITY AND THE \$25.00 IS THE TOTAL PRICE.
- B. NORMAL PRICE ADJUSTMENTS IF THE AMOUNT OBLIGATED IN THE OPTAR LOG FOR A PARTICUALR REQUISITION, DIFFERS FROM THE AMOUNT POSTED ON THE REPORT 21 AND THE QUANTITY AGREES, THEN DO THE FOLLOWING:
- 1. DETERMINE IF THE PRICE DIFFERENCE IS DUE TO A NORMAL PRICE CHANGE OR IF THE DIFFERENCE IS DUE TO AN ERROR. IF THE PRICE DIFFERENCE IS DUE TO A NORMAL PRICE CHANGE PROCEED ON TO STEP IVB2. IF THE AMOUNT CHARGED ON THE REPORT 21 IS IN ERROR, CONSULT THE ERROR SECTION OF THIS CHAPTER.



- 2. ANNOTATE ON THE REPORT 21, NEXT TO THE TOTAL PRICE COLUMN, THE AMOUNT OBLIGATED IN THE OPTAR LOG FOR THAT PARTICULAR REQUISITION.
- 3. POST THE DIFFERENCE BETWEEN THE AMOUNT OBLIGATED IN THE OPTAR LOG AND THE AMOUNT CHARGED ON THE REPORT 21, IN THE RESPECTIVE COLUMN ON THE RIGHT-HAND SIDE OF THE REPORT 21.
- 4. ANNOTATE THE OPTAR LOG, IN THE REMARKS COLUMN OF THE RESPECTIVE REQUISITION, THE MONTH OF THE REPORT 21, DOCUMENT IDENTIFIER, QUANTITY, TOTAL PRICE BASED ON THE REPORT 21 OBLIGATION/EXPENDITURE POSTING, AND IN THE RESPECTIVE ADJUSTMENT COLUMN.THE ADJUSTED DIFFERENCE.
- C. PARTIAL OBLIGATIONS: IF THE QUANTITY REQUESTED ON YOUR REQUISITION DOES NOT MATCH THE QUANTITY OBLIGATED ON THE REPORT 21, CHANCES ARE THAT A PARTIAL ISSUE WAS MADE FROM DIXON STOREROOMS (X31) AND THE BALANCE WAS PASSED AS AN AØ. IT IS POSSIBLE THAT EITHER THE X31, AØ OR BOTH WILL APPEAR ON THE SAME REPORT 21. SHOULD ONLY THE X31 OR ONLY THE AØ APPEAR ON THE REPORT 21 AS A PARTIAL OBLIGATION, TAKE THE FOLLOWING STEPS:
- 1. COMPARE THE UNIT PRICE OBLIGATED WITH THE UNIT PRICE CHARGED; IF THE UNIT PRICES ARE DIFFERENT, MULTIPLY THE DIFFERENCE TIMES THE QUANTITY YOU ORDERED IN THE OPTAR LOG AND TAKE THE ADJUSTMENT.
- 2. LIST THE PARTIAL ISSUE IN ENCLOSURE (1) OF THE BALANCE SHEET AS A MISSING REQUISITION AND WRITE PARTIAL OBLIGATION MISSING IN THE REMARKS COLUMN.
- 3. ANNOTATE THE REMARKS BLOCK OF THE OPTAR LOG WITH A "P" TO DENOTE PARTIAL OBLIGATION, ALSO INCLUDE REPORT 21 MONTH, DOCUMENT IDENTIFIER, AMOUNT CHARGED AND QUANTITY BILLED FOR, THE ABREVIATION "ADJ" IF A PRICE ADJUSTMENT TAKEN.
- 4. AS THE MISSING PARTIAL OBLIGATION APPEARS ON THE NEXT REPORT 21, CROSS OUT THE "P" IN THE REMARKS BLOCK OF THE OPTAR LOG AND DISCONTINUE LISTING IT AS A REQUISITION NOT APPEARING ON THE COMPUTER (ENCLOSURE 1) OF THE BALANCE SHEET.
- D. CANCELLATIONS: WHEN REQUISITIONS ARE CANCELLED, EITHER BEFORE THEY REACH A SUPPLY ACTIVITY OR AFTER PROOF WAS PROVIDED, YOU MAY TAKE IMMEDIATE CREDIT FOR THE MONEY ON THE NEXT AVAILABLE LINE IN THE OPTAR LOG AND ANNOTATE SAME WITH REQUISITION NUMBER, PROOF OF CANCELLATION AND AMOUNT OF CREDIT TAKEN. (EXAMPLE: CANC ADJ 8362-2776, MESSAGE DTG, \$4.00).



- 1. ANNOTATE, IN THE REMARKS BLOCK, OF THE OPTAR LOG, OF THE REQUISITION BEING CANCELLED, WHERE THE CANCELLATION CREDIT WAS TAKEN. (I.E. CANC 1171) MEANING THAT THE CREDIT WAS TAKEN ON THE NEXT LINE AFTER REQUISITION 1171.
- 2. ENSURE THAT THE CANCELLED REQUISITION IS NOT INCLUDED IN THE LIST OF REQUISITIONS NOT APPEARING ON THE COMPUTER IN THE BALANCE SHEET.
- 3. IF AN AE\_ FOR A REQUISITION THAT YOU HAVE TAKEN CREDIT FOR DOES NOT APPEAR AND AN AØ\_ HAD PREVIOUSLY APPEARED, THEN THE AØ\_ ON THE REPORT 21 MUST BE LISTED AS A COMPUTER ERROR AND WILL BE POSTED ON THE REPORT 21 CHALLENGES, ENCLOSURE (2) OF THE BALANCE SHEET, SINCE THE OPTAR LOG AND THE COMPUTER WILL ALWAYS DISAGREE BY THAT AMOUNT.
- 4. IF AN AE\_ FOR A REQUISITION THAT YOU HAVE PREVIOUSLY TAKEN CREDIT FOR APPEARS ON THE REPORT 21, DO NOT TAKE ADDITIONAL CREDIT FOR THE CANCELLATION. THE CANCELLATION IS NOT TO BE LISTED IN THE COMPUTER CHALLENGES ENCLOSURE (2) OF THE BALANCE SHEET.
- 5. IF THE OPTAR LOG CUT-OFF DOCUMENT NUMBER USED TO MAKE UP THE BALANCE SHEET PRECEEDS THE DOCUMENT NUMBER WHERE THE CANCELLATION CREDIT WAS TAKEN, THEN THE BALANCE SHEET WILL NOT BALANCE. YOU MUST INCLUDE THE AMOUNT CREDITED.
- E. COMPUTER ERRORS/CHALLENGES: THE FOLLOWING ARE EXAMPLES OF COMPUTER ERRORS/CHALLENGES WHICH COULD APPEAR ON THE REPORT 21. IF YOU FIND ONE, DON'T TAKE AN ADJUSTMENT ON THE TRANSACTION; POST THE TRANSACTION IN ENCLOSURE (2) OF THE BALANCE SHEET REPORT.
- 1. DOUBLE CHARGE FOR THE SAME REQUISITION. IF YOUR OPTAR LOG IS ANNOTATED PROPERLY, THE SECOND TIME A X31 APPEARS, IT WILL BE IMMEDIATELY APPARENT THAT SOMETIME PRIOR TO THE LISTING THAT YOU ARE PROCESSING, THE SAME REQUISITION HAD APPEARED BLFORE AND IS A DOUBLE CHARGE.
- 2. KEYPUNCH EFFOR/TRANSCRIPTION ERROR. THIS OCCURS WHEN THE AMOUNT CHARGED ON THE REPORT 21 EXCEEDS THE AMOUNT HORMALLY ATTRIBUTED TO PRICE CHANGES. THIS CAN BE CHECKED BY VERIFYING THE UNIT PRICE LISTED ON THE DIXON MSSL OR THE ML-N WITH THE AMOUNT CHARGED ON THE REPORT 21.



- F. SUBMART REQUISITIONS: SUBMART REQUISITIONS WILL BE HANDLED IN THE FOLLOWING MANNER:
- 1. ANNOTATE THE TOTAL PRICE INDICATED ON THE SUBMART MVO CHIT, PROCESSED BY THE SUBMART STOREKEEPER, IN THE OPTAR LOG.
- 2. WHEN THE SUBMART X31 DI SUBMART RUN APPEARS ON THE REPORT 21, ADD UP ALL CHARGES POSTED AGAINST THE SUBMART REQUISITION.
- 3. ANNOTATE IN THE REMARKS COLUMN OF THE OPTAR LOG, THE REPORT 21 DATE, DOCUMENT IDENTIFIER AND THE TOTAL AMOUNT CHARGED ON THE REPORT 21
- 4. IF THE AMOUNT CHARGED ON THE REPORT 21 EQUALS THE AMOUNT OBLIGATED IN THE OPTAR LOG, TAKE NO FURTHER ACTION. IF THEY DIFFER, IT MEANS THAT SOME OF THE CHARGES HAVE FAILED TO MAKE THE REPORT 21 PRINTING DEADLINE AND SHOULD APPEAR ON THE NEXT REPORT 21 PRINTED. DO NOT TAKE AN ADJUSTMENT FOR THE MISSING BALANCE. MAKE AN ADDITIONAL ANNOTATION IN THE REMARKS COLUMN OF THE OPTAR LOG WITH THE ABBREVIATION "P" TO DOCUMENT A PARTIAL ISSUE. THE MISSING BALANCE WILL BE VIEWED AS A REQUISITION NOT APPEARING ON THE COMPUTER AND WILL BE POSTED IN ENCLOSURE (1) OF THE BALANCE SHEET WITH THE REMARKS "PARTIAL OBLIGATION, BALANCE OUTSTANDING".



USS DIXON AS-3	A AS-	37	and the second s		REQUIS	SITION	REQUISITION ZOPTAR LOG	901			-	
nic Jin	ISI IS	UIC "CEL" JSN JANIEN THAN CON	STOCK NO.	DESCRIPTION	PRI FC UI OTY	VIO.	CHIC	1014t	FROM REPORT 21	ADJUSTICENT	Average of Saye	88
90		BALANCE BROUG	ROUGHT FORMARD FROM PREVIOUS PAGE	IN PREVIOUS	PAGE							
	-	9274 6700	INDIR ALLOSA	rick 1 Der	13		02020,01		10/460			-
	-	43	0 P - XEROX	RENTAL	13 NI EA	66660	50000	00 003			0 500	İ
		65	3210-00-252-774	Parur	13 M E1	9	10 (1)	55 10	35,578,00	5.10	3 500 4	ı
	1	9274 6103 92	8010 00-242-2081	THIMMER	13 MC CN	رې	2 00	10 00	20/404 2/10 00		9 4/25/197	
	-	9372 6704 94	747-16-00 3285 WF	BREAKER	CK. MS EA	3	3	37 50	L. L.		9357 40	
1		7211 4705 92	92 6145.00.110-237	CAB1.E	26 MR FF	150	05	15 24			932.46	
		1278 6766 95	889 Beech #126411	PAPER	OL M. 64	7	3.14 0	344 00	11271 (34) 17	2003	04 376 9	
	-	82 TO 199	19277 6709 95 M.O. SUBMORE	VARVOUS	13 116 60		200 00	20002	20 28 d 111 0 111 1 1 2 5 00	15.61	8 778 40	
1		3277 6 103 95	OP GRAVENCELIE	SWIT 2 452	C6 M2 69	-	25012	25000			0 527 40	
	-	322 670Y 1T.	11. 0:02-15-013-33 13472 Cara.		13 MG BK	۵.	Ch h	35 20		-25	8 44 20	
	-	9273 6710 44	44 1355-01-031-7628	VALVE	CC YC EA	7	447 00	N/C	10/438		0 411 20	
		70	12 35 16 435 CE 20	p.475	13 A EA	7	2/10	W/C	10/800		0 10:20	
	-	9224 4:13 94	94 5835-00 124-PEGT 19PE SOLUD		06 ME FA	7	30000	30000	11.2311(20.3)	\$2.60	2 135,0	
	-	12 274 4713 21	21 5215 00 213-1053 HZIROPHONE	HZLEOPHONE !	06. YE EA	8	17530	N/C	:21.8.05		0 .0 .0	
	_	7275 2014 14	45 CO-00-319 3341	SETEROMETERS	33 3h 30	7	<b>6</b> 55	130 00				
	-	9290	CANTELLATION ADJ 9276-	301 9276 -	27.4			37 12			0 , 20	
	-		94 MV3 - SERVMOR		13 ME EN	I	oclock	30000	10,611,710 01		1 600 1	
-	+	3	1120-00-127. 527.5	DISC ASSY	26 M8 EA	8	28 35	176 00			7 424.23	
	1	105.50	PLDLESONAL 1	I GIR AL ON GITTEN	01 Brr 24		3000		ספא,זה		1000	
	+	92926118 76	C.99. Gerslene Lie	200 KG:24 13 42 EA	13 42 64	7-1	125 40	425 40			9 147 20	
	-		14 1110 CO 250 4170 MILTE BESHINS CL MS 6A	Vistre Bushing	56 M8 EA	6	22.50	105 17	17/22 2/2/20 cm	22.52	9 15: 85	
	-	65.5	AbbITIONAL DELIGHTION	LIGHTION 92	9-74-6701			3000			1011576	
		10239 6720 II	C168 LF 501-2501	1-0561	13 H2 BK	5	17 00	\$5,00	10/31/5/20	23	754C. NC	
	-	9251 6721 96	90 7220 (0:543-7157 THE VIHUE		13 M2 BK	~	12 14	36 78			\$510.25	
ā		9201 6722 90	190 7513-60-24.6710 TAPE PRESS		13 MC RO	3	1.9	58			V 534.5	
		ANDE L	TEO FURNIARE 10	KEXT PAGE				3,493 52			Socker PAGE NO	· ⊃
		***************************************							12 (R 3 4 QUARTER FY 2)		ALLOCATION: 12, 252 25,31	
							_	•				



	AVALLAGY PART RECT		6 202	0 5 12 10	0 2000	2,00,00	3	× 135 %																PAGE NO.	20 co 11 ℃
	ADJUSTATIKT NAME	:==		0	0	2																			ALLOCATION : 12, 000 00 133
	FROM REPORT 21																							-	22 DZ 34 QUANTER FY 92
901	TOTAL	1493 52	6 52	122160	100.001		3,844 14	3.913 6					1-1			+		1				-	+		
N ZOPTAF	13 CMIT FINCE		8 24	30 65	100 001									_									-		_
REQUISITION / OPTAR 106	DESCRIPTION PRICE UI OTY	M PREVIOUS PAGE	Bus PLASFIG 13 MC BX I	FIXTURE OCIMREA 4	VARIOUS 13 MC EA 1	CALCULATOR OF ME EA 1																	DI VY DAPP	YEAT PAUL	
	STOCK NO.	ROUGHT FORWARD FROM PREVIOUS PAGE	49,8105 00-655 PAPS BAS PLASTIC 13 ME	96 5210-00-215-C355 FIXTURE	94 MYO - SUBMART	G. BPA- MOUSOS	STATEME AS OF																DOLEN CODINGO TO MINOT DANK	איוכם בטעשאים ומ	
AS-37	WORK JSN JULIAN SELIAI		9510 6123 9	9320 6724 9	9325 6725 9	9326 6726 8	Bold																DAT A LAG	באראיזפי פאי	
USS DIXON AS-37	WORK CEN					-					1	_					-	-				_		1/0 0/0	
USS	JIN .	2													_				1				è.		

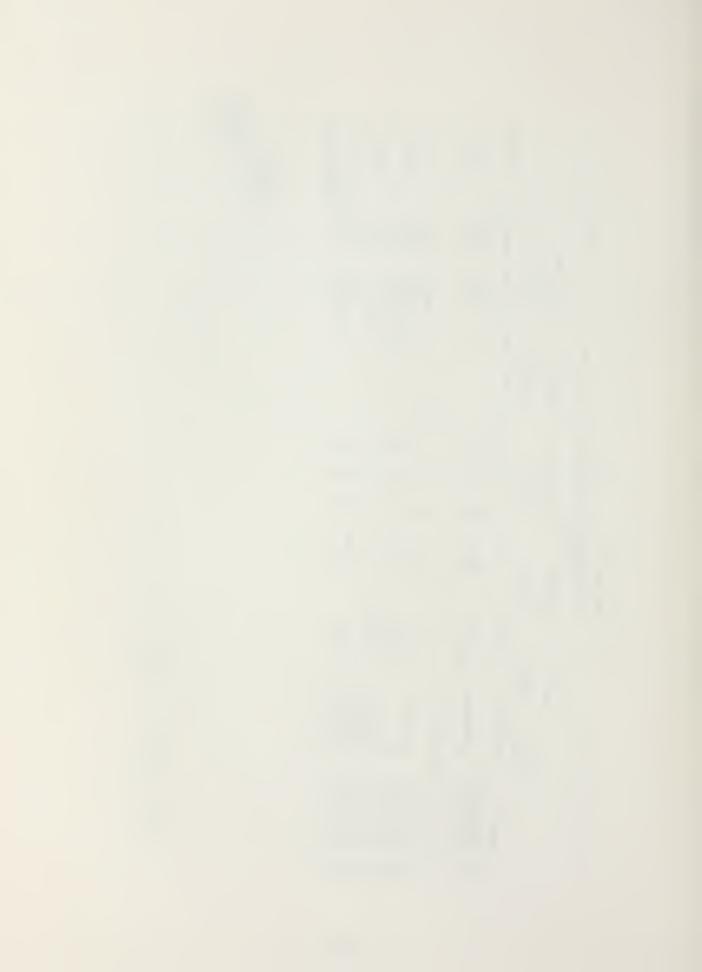


	Ω•8				.00	4.00CR	1	.00		40.00	30.00cn	5.80 14.00
	TAPE OFFIRE	PAL		THE PRICE TOTAL PRICE	500.00	340.00	+	500.00 10.00 350.00	250.00	200.00	\$0.00 90.00 90.00 90.00	
		AVAILABLE PAL	8,056.00	ETT PRICE	1,000.00	240.00		1,000.00 5 2.00 1(344 ﷺ,0310.00	1 8(35.20) 1.50		2 30.00 5 (75 ∞) 13.00 5 18.00	
	616	OUL	00	XIO	50-	4		5 1 (3	1 8(3	1	~ v. v.	
	1001	GROSS ADJ ORL	1,944.00	F.F.	•							
	DIVISICA BUCZER NUNCH FOR PERIOD ENDERG 30 NOV 1979 DIVISICA NAVE 67 20132	GBO	AIN	BUTC								
R20132	19100 E	EG		PRI	13	<u> </u>		13	13 06		1136	
N20	FOR P.	D DATE	475.00	8	\$8			88	818		HHH	
	OIVISION NAME 67 20132	YEAR TO DATE EGG	4.0,	S.	§ 5 5		=	555	558		돋艿꿍	
5-37	TSION			F	NDZ			NDZ	7GN		N35	
USS DIXON AS-37	SICT B	TICUS	00.00	In	<u> </u>		2.5	វិតិដ	<b>និង</b> ស		<u> </u>	
1 SSN	DIV	1CH OBLICATIONS	1,269.00	DESCRIPTION	THUMER PAPER			THIRER PAPER SATACHES	13 ten Ouds Tape, sound		1250-1 1250-1	
		ALLOCATION	CL. PAL. 10,000.00	STOCK/PARE NO.	00100024220d9 BPA	CLEANINE NAMES THE SACTIONS	801 0002422065 BPA O.P. 0102LT0134640 56155001246607 ALLCCATTG4 4470602579178 0108LF5012568					
			ອີຢ່		<b>45</b> 8	zuuz e	1	<b>5</b> 9 8	6 C S	2 0	88	
				LCCTIN 110.	R2013292746701 K2013292746703 K2013292786706	OUTUNATIVE IN	R2013292746701	H2013292746703 H2013292786706 H2013292796708	R2013292816709 R2013292346712 R201329, 946700	12013292976719	K2013292996720	
				1/0	X71 X73		BLX.	X71 X73 X0E	15. 88	X71	x31 x31	

USS DIXXN AS-37

+68.20 +17.60 95.80 Total RDJUSHRUT RS OF OCT 4 NOV BT21

Pro MATCHET 21 DATE 9334



# PART IV OPTAR/LOG/REPORT 21 BALANCE SHEET

APPLICABILITY: DIXON

SUBGRU FIVE UNITS



# OPTAR LOG/REPORT 21 BALANCE SHEET

A LEGIBLE COPY OF A COMPLETED OPTAR LOG/REPORT 21 BALANCE SHEET WILL BE RETURNED TO THE END-USE FINANCIAL SECTION, DIXON STOCK CONTROL DIVISION, WITHIN FIVE WORKING DAYS AFTER RECEIPT OF THE MONTHLY REPORT 21.

## BRIEF EXPLANANTION OF THE OPTAR LOG/REPORT 21 BALANCE SHEET

- 1. THE DATE OF THE REPORT 21 BEING RECONCILED.
- CHECK OPTAR, ROV, TAV OR REIMBURSABLES. FOR SUPPORTED UNITS IT IS ALWAYS OPTAR. FOR DIXON DEPARTMENTS/DIVISION WRITE THE SERIAL NUM-BER ASSIGNED TO YOUR FINANCIAL OPTAR.
- 3. REPORT 21 CUT-OFF DOCUMENT NUMBER, THE LAST SERIAL NUMBER LISTED ON THE REPORT 21.
- 4. LAST SERIAL NUMBER ENTRY IN YOUR OPTAR LOG.
- 5. PRINT YOUR NAME, RATE AND PHONE NUMBER.
- 6. TOTAL GROSS ADJUSTED OBLIGATIONS ACCORDING TO REPORT 21.
- REQUISITIONS NOT APPEARING ON COMPUTER TOTAL DOLLAR VALUE OF REQUISITIONS LISTED IN YOUR OPTAR LOG THAT HAVE FAILED TO HIT THE REPORT 21.
- 8. TOTAL DOLLAR VALUE OF CHALLENGES TO REPORT 21 OBLIGATIONS. (I.E. DOUBLE CHARGES, KEYPUNCH ERFORS IN PRICE, ETC)
- 9. CORRECTED COMPUTER TOTAL OBLIGATIONS LINE 6 PLUS LINE 7 PLUS/MINUS LINE 8.
- 10. OPTAR LOG TOTAL OBLIGATIONS TOTAL OBLIGATIONS IN THE COTAR LOG AS OF THE LAST ENTRY SERIAL NUMBER, PLUS ALL ADJUSTMENTS DUE TO RECONCILIATIONS MADE WITH REPORT 21.
- 11. IF THE DIFFERENCE BETWEEN LINE 9 AND 10 IS MORE THAN 1% OF THE HIGHEST AMOUNT, A RECONCILIATION WITH THE DIXON END-USE FINANCIAL SECTION MUST BE CONDUCTED TO RESOLVE THE DIFFERENCE PRIOR TO SUBMISSION OF THE REPORT 21 BALANCE SHEET.
- 12. TOTAL ALLOCATIONS TOTAL FISCAL YEAR TO DATE ALLOCATIONS GPANTED TO YOUR OPTAR.
- 13. OPTAR LOG CURRENT AVAILABLE BALANCE AS OF LAST SERIAL NUMBER ENTRY WITH ADJUSTMENTS.



# ENCLOSURE (1) REQUISITIONS NOT APPEARING ON THE COMPUTER

LIST ALL REQUISITIONS LISTED IN THE OPTAR LOG THAT HAVE FAILED TO HIT THE REPORT 21, UP TO THE LAST SERIAL NUMBER REQUISITION LISTED ON THE REPORT 21 BEING RECONCILED. ALL REQUISITIONS MISSING FROM THE REPORT 21 WITH SERIAL NUMBERS AFTER THE REPORT 21 CUT-OFF NUMBER WILL BE BATCH POSTED WITH A ONE LINE ENTRY. (I.E. REON 8235-1021 THRU 8256-1167.... \$45,000.00) EXCEPTION: WHEN RECONCILING SEPTEMBER REPORT 21 LIST ALL REQUISITIONS IN THE OPTAR LOG UP TO AND INCLUDING 30 SEPTEMBER IN ENCLOSURE (1) OF THE REPORT 21 BALANCE SHEET. IT IS IMPORTANT THAT ALL DATA BLOCKS ON THIS ENCLOSURE BE COMPLETED REQUISITIONS NOT APPEARING ON THE COMPUTER ARE CUMULATIVE FROM THE BEGINNING OF THE FISCAL YEAR UNTIL THEY AFPEAR ON THE REPORT 21. WHEN THE MISSING FULL OR PARTIAL OBLIGATION APPEARS ON THE REPORT 21, CROSS OUT OR/AND DISCONTINUE LISTING THEM IN ENCLOSURE (1) OF THE BALANCE SHEET.

## ENCLOSURE (2) REPORT 21 CHALLENGES

LIST ALL CHALLENGES TO THE COMPUTER REPORT 21 OBLIGATIONS THAT YOU FEEL ARE IN ERROR. EXAMPLE - DOUBLE CHARGES, KEYPUNCH ERRORS THAT RESULT IN WRONG UNIT PRICE, ETC. FILL IN ALL DATA BLOCKS. CHALLENGES ARE ALSO CUMULATIVE FROM THE BEGINNING OF THE FISCAL YEAR UNTIL THEY ARE CORRECTED ON THE REPORT 21. ONLY THEN, CAN THEY BE DISCONTINUED FROM BEING LISTED IN ENCLOSURE (2) OF THE BALANCE SHEET.



MEMO	RANDUM .		
rom	: S-7 DIVISION Stock Control Officer, USS DIXON AS37		
Sebj	: OPTAR Log, Report 21 Balance Sheet		
1.	Report 21 for period ending		
2.	OPTAR 67 ROV TAV REIMB		
3.	Report 21 cut-off document number 9299 - 6720		
4.	optar Log current document number 9326 - 6726		
5.	(Print) Name SK3 JONES Phone 7186		
	•		
***	*****************	*****	*****
6.	Report 21 Gl. Bal Gross Adj. Obl(+)\$	2,616	. 00
7.	Requisition: not Appearing on Computer(+)\$	1,287	. 64
	(as of current document number)		
8.	Total Computer Challenges(-)\$	90	. 00
9.	Corrected Computer Total Obligations(=)\$	3,813	. 64
	(Total of lines 6 & / minus line 8)		
0.	OPTAR Log Total Obligations\$(w/ adjustments as of current doc. no.)	3,813	. 64
1.	Difference between line 9 and 10	0-	

13. OPTAR Log Corrent Available Balance......\$ 8,186 .36 (with all adjustments)

Date: 5 DEC 19



Division or Unit's Name:
i. ! (1) Requisitions not Appearing on Computer
(I) E
-1
:

	•	*
30 Nov 79	Init. 9ri S ristor. 50 5 06 5 65 00 5 06 5 88 00 5 13 5 42 5 40 5 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
For Period Ending:	Document No. 101C F/C COS 9257-6714 MR 92 9273-6714 MR 1H 9273-6717 MR 1H 9276-6:48 MC 96	
OII CONTULEIT.	Discrete   Resolvent   RVI   NSN or Description   U/I   Gry     Color   Color   Color   Color   Color   Color     V	Y N Y / Y

revised: 10/1/80/fyi

Ormulative Total......\$1,289.64



S-7 DIVISION	我被告诉我在我在我们的 化二甲基苯甲基	Total Amount	\$ 90.00		S	S	\$	S		5		,	^	8	·	8	S		2	2	2		n	S	\$ S	TOTAL, \$ 90.00
Division or Unit's name; S-	1. 101 0C	Briefly explain the transaction problem	Сняя																							OT
ges	在在在在在在在在	Briefl	DOUBLE CHARGE																							
port 21 Challenges		Document No.	9299 -6720	•	1	-	5	1	-	!	s			•	5	-	-	ŝ				*		1	š	
Encl.(2): Report	化化 化	Month & DI	11 131																							

page no.



# PART V SUBMARINE ACCOUNTING SUPPLEMENT

APPLICABILITY: SUBGRU FIVE UNITS



#### SUBMARINE SUPPLEMENT

## REFERENCE (A) COMSUBPACINST 7330.2 SERIES

BACKGROUND - THE END-USE FINANCIAL SECTION OF THE STOCK CONTROL DIVISION, OF THE SUPPORTING TENDER IS RESPONSIBLE FOR THE OPTAR ACCOUNTING FOR SUBGRU FIVE UNITS. IT MAINTAINS EACH UNIT'S OPTAR BALANCE, PROVIDES LISTINGS OF OBLIGATIONS AND EXPENDITURES TO SUBGRU FIVE UNITS AND ASSISTS UNITS IN RECONCILING THEIR OPTAR RECORDS WITH BUDGET OPTAR REPORT 21.

ACTION - SUBGRU FIVE UNIT SUPPLY OFFICERS ARE RESPONSIBLE FOR THE SUBMISSION OF THE FOLLOWING MONTHLY FINANCIAL REPORTS:

#### A. OPTAR DOCUMENT TRANSMITTAL REPORT (NAVCOMPT FORM 2156)

- 1. DEPLOYED UNITS SHALL SUBMIT OPTAR DOCUMENT TRANSMITTAL REPORTS TO THE END-USE FINANCIAL SECTION, DIXON STOCK CONTROL DIVISION, IN ACCORDANCE WITH THE PROCEUDRES OUTLLINED IN PARAGRAPH 4106 OF NAVSO P-3013. REPORTS SHALL BE SUBMITTED AT LEAST THREE TIMES EACH MONTH ON THE 10TH, 20TH AND LAST DAY. OPERATIONS MAY DICTATE EARLIER SUBMISSIONS IN ORDER TO MEET THE ABOVE REQUIREMENTS.
- 2. THE FOLLOWING SHALL BE SUBMITTED WITH THE OPTAR DOCUMENT TRANSMITTAL REPORT:
- (A) COPIES OF ALL REQUISITIONS SUBMITTED DIRECTLY TO SUPPLY ACTIVITIES OTHER THAN THE DIXON. THIS INCLUDES REQUISITIONS SUBMITTED TO ANY OTHER SUBMARINE TENDER AND ALL SUPPLY CENTERS IF THE REQUISITION WAS NOT FIRST PROCESSED BY THE SUPPORTING TENDER.
- (B) COPIES OF ALL RECEIPT DOCUMENTS FOR MATERIALS RECEIVED FROM SOURCES OTHER THAN DIXON'S STOREROOMS OR THROUGH FACILITIES OTHER THAN DIXON'S TRANSIT SHED. THE COPIES SHALL BE LEGIBLE, DATED AND SIGNED. THE TIMELY RETURN OF RECEIPT DOCUMENTS REDUCES THE CHANCE OF OVER CHARGING FOR MATERIAL RECEIVED BEFORE MONTHLY PRICE CHANGES ARE ENTERED INTO THE COMPUTER.
- (C) INDENTIFICATION OF ALL CONFIRMED CANCELLATIONS RECEIVED FROM SUPPLY ACTIVITIES. THE FOLLOWING INFORMATION SHALL BE ANNOTATED ON THE BACK OF THE REPORT: DOCUMENT NUMBER, NSN, U/I, QUANTITY CANCELLED, COMPLETE OR PARTIAL CANCELLATION, STATUS CODE AND ROUTING IDENTIFIER OF THE CANCELLING ACTIVITY.
- 3. A SAMPLE OPTAR DOCUMENT TRANSMITTAL REPORT IS SHOWN IN EXHIBIT 1.



#### B. BUDGET/OPTAR REPORT (NAVCOMPT FORM 2157)

- 1. EACH SUBGRU FIVE UNIT SHALL SUBMIT BUDGET/OPTAR REPORTS TO ARRIVE ON DIXON, WITH A COPY TO COMSUBPAC (CODE 007) BY THE END OF THE FIRST CALENDER DAY FOLLOWING THE MONTH REPORTED AND IN ACCORDANCE WITH PROCEDURES PRESCRIBED IN PARAGRAPHS 503 AND 504 OF REFERENCE (A). THE SUPPORTING TENDER IS RESPONSIBLE FOR SUBMITTING THE UNIT'S REPORTS TO FAADCPAC AFTER RECONCILING THOSE REPORTS WITH THE REPORT PRODUCED BY THE SUPPORTING TENDER'S COMPUTER.
- 2. BUDGET/OPTAR REPORTS MUST BE SUBMITTED MONTHLY FOR THE FIRST 18 MONTHS OF AN APPROPRIATION (I.E. REPORTS FOR FY79 MUST BE SUBMITTED MONTHLY THROUGH MARCH 1980). THEREAFTER, THROUGH THE 36TH MONTH, A BUDGET/OPTAR REPORT WILL BE SUBMITTED WHENEVER THERE IS A CHANGE IN GROSS OBLIGATION DURING THE MONTH.
- 3. TO REDUCE DELAYS IN THIS RECONCILIATION, SUBGRU FIVE UNITS SHALL SUBMIT THE BUDGET/CPTAR REPORTS BY MESSAGE. DO NOT UTILIZE MAIL SERVICE FOR THE SUBMISSION OF REPORTS.
- 4. SAMPLE BUDGET/OPTAR REPORTS ARE SHOWN IN EXHIBIT (2).

#### C. REPORT 21 RECONCILIATION/BALANCE SHEET

- 1. INFORMATION AS REFLECTED ON THE TENDER COMPUTER RECORDS IS PROVIDED TO SUPPORTED UNITS WEEKLY IN THE FORM OF SUADPS REPORT 21 FOR CURRENT FISCAL YEAR FUNDS AND SUADPS REPORT 23 FOR PRIOR FISCAL YEARS. THE LAST REPORT 21 PRODUCED EACH MONTH CONTAINS ALL THE CUMULATIVE TRANSACTIONS FOR THAT MONTH.
- 2. SUPPORTED UNITS WILL RECONCILE THEIR MANUAL OPTAR LOGS WITH THE TENDER COMPUTER RECORDS AT LEAST ONCE EACH MONTH BY COMPARING THE MONTHLY REPORT 21 TO THEIR OPTAR LOG AND WORKING A FINANCIAL BALANCE SHEET. A COPY OF THE COMPLETED BALANCE SHEET WILL BE RETURNED TO THE TENDER WITHIN FIVE WORKING DAYS AFTER RECEIFT OF THE MONTHLY REPORT 21.



OPTAR DOCHHENT TRANSHITTAL REPORT		MAVE OHFT 7303-14
MAYCOMPT FORM 2156 (REV. 7-70)	3	UNIT IEEE/ILLICATION CONT
S/N 0104-LF 704-9001		RØ5143
FROM: COMMANDING OFFICER . TO:	COMMANDING OFFICER	-
USS GURNARD (SSN-662) FPO SAN FRANCISCO 966Ø1	USS DIXON (AS-37) FPO SAN FRANCISCO 96648	5648
A TRANSMITTAL MUMBER	(10)	
9274		9283
CAPTION	NUMBER OF DOCUMENTS	MONEY VALUE
1. CHLICATION (CHANGEABLE) DOCUMENTS (FILE 1)	. 76	\$8,810.90
2 CONFERMED CANCELLATIONS (FILE 2)	Ø	Ø
TOTAL NET VALUE OF (! HINUS 2)	-	\$8,810.90
3. RETURNED INREC ACTION ONLY! DOCUMENTS (FILE 3)	NOT APPLICABLE	
REMARKS: LIST OF CONFIRMED CANCELLATIONS: (MININ	(MINIMUM INFORMATION REQUIRED)	IRED)
DOCUMEN'T NUMBER U/I QTY CANCELLATION CODE		ROUTING IDENTIFIER (CANCELLING

1Ø OCT 79

A. BARRY, ENS, SC, USNR

BIPDRING SUPPLY OFFICER (Signature)



#### SAMPLE MESSAGE BUDGET/OPTAR REPORT

FROM: USS GURNARD
TO: USS DIXON
INFO: COMSUBPAC PEARL HARBOR HI

UNCLAS //NØ733Ø//

SEE BUDGET OPTAR REPORT

#### 1. MAY/RØ5143/7Ø2B/57Ø2Ø/FY8Ø

## A. OBLIGATION DATA

(21)	(22)	(23)	(24)
ME	\$ 4,197.85	\$ 126.11	\$ 4,323.96
MR	149,396.41	79.59	149,476.00
MC	49,890.82	Ø	49,890.82
M7	645.70	Ø	645.7Ø
M2	16,810.20	17.52	16,827.72
MU	7,843.10	Ø	7,843.10
MY	110.00	Ø	119.00
TOTAL	\$228,894.08	\$ 223.22	\$229,117.30

B. TRANSMITTAL DATA (FILLED IN BY DEPLOYED UNITS)

TOTAL TL NO.

AMOUNT

C. GRANT FYTD: \$260,000.00

D. N/A

E. N/A

2. MAY/RØ5143/702B/57Ø2Ø/FY79



## A. OBLIGATION DATA

(21)	(22)	(23)	(24)
ME	\$ 5,221.42	\$ 19.30	\$ 5,240.72
MR	159,039.81	1,154.83	160.194.64
MC	36,460.30	3,421.62	39,883.92
M7	9,403.10	753.80	10,156.00
OTHER	28,426.94	200.87	28,627.81
TOTAL	\$ 238,553.57	\$ 5,550.42	\$244,103.99

B. TRANSMITTAL DATE (FILLED IN BY DEPLOYED UNITS)

TL NO. TOTAL

AMOUNT

- C. GRANT FYTD: \$245,000.00
- D. N/A
- E. N/A



## D. DLR INFORMATION

- 1. ENCLOSURE (1) IS A SAMPLE OF HOW THE BUDGET OPTAR REPORT (BOR) SHOULD LOOK. NOTICE THAT FUND CODE MB IS NOW INCLUDED IN PARAGRAPH A. THE OBLIGATION FIGURE FOR FUND CODE MB SHOULD REFLECT THE TOTAL DLR OBLIGATIONS NOT JUST THE OBLIGATIONS FOR THAT MONTH. IN ENCLOSURE (2) IT WOULD BE THE BOTTOM LINE FIGURE SHOWN IN COLUMN 17 OF \$66,000.00.
- 2. THE "GRANT FYTD" FIGURE IN PARAGRAPH C OF THE SHOULD NOW REFLECT THE S&E GRANT PLUS THE DLR GRANT, i.e. IF THE S¢E GRANT WAS 250K AND THE DLR GRANT WAS 80K THEN THE GRANT FYTD IS 300K.
- 3. THE PROCEDURES FOR RECONCILING THE DLR'S AGAINST THE COMPUTER REPORT 21 SHOULD BE THE SAME AS THE S&E FUND PROCEDURES. ALTHOUGH BOTH ALLOCATION AND GROSS ADJUSTED OBLIGATIONS ARE COMBINED ON THE REPORT 21, AT THE OPTION OF EACH OPTAR HOLDER, THE DLR'S CAN EITHER BE RECONCILED SEPARATELY OR WITH THE S&E FUND. ENCLOSURE (3) IS AN EXAMPLE OF OPTAR LOG/REPORT 21 BALANCE SHEET WITH SEPARATELY RECONCILED DLR'S.
- 4. BE SURE TO PROCESS REPORT 21'S IN A TIMELY MANNER AND RETURN TO DIXON STOCK CONTROL.



## SUBJ: S&E BUDGET OPTAR REPORT

## 1. JULY/R33175/702B/57020/FY81

## A. OBLIGATION DATA

(21)(22)ME 4,007.35 MR 1,539.59 43,223.40 MC M2 767.35 948.23 M7 78.02 M9 2,456.00 MV 54,219.58 MU 66,000.00 MB 173,238.43 TOTAL

- B. TRANSMITTAL DATA (FILLED IN BY DEPLOYED UNITS)
- C. GRANT FYTD: 330,000.00
- D. N/A
- E. N/A

ENCLOSURE (1)



						14,000			- 0,20										
	Cumulaho	10,000.00	17,000.00	15,000.00	24,000.00	Navo-0,000 = 14,000	26,000.00	8,00.00 34,000.00	34,000-27,000 = 10,000	 2,500.00 36,500.00	1,000.00 52,500.00		Butune	27,500.00	23,500.00	21,500.00	14,00.00		65, av. 00 14, av. 10 ].
REQUISITION/OPTAR LOG.	MB		2,000.00	3,000.00			2,000.00			2,500.00	16,000.20		l	27,500.00	coran's	2,530.00	1,500.w		65,40,00
	Ryant 21		5781 X31	5781 1214	Ster ADA, X71		4/81 404	(%) X3/		1/81 101	1/81 AUA								
	aule Two In Tweedly Oceanory No		1091-6000 5781 X31	1042-6001 5/81 1/24	1119-6002 SPINON,X71 9,000.00		=	1150-6004 4/81 X31		1151 400284 1155 1152-6205 781 AUA	9009-1811					8000 - OK/			
	Oute Turned In		4801		1136			1155		 1155	1182		-			\$			
	UK Fund Oule Di 70 Tured		1011 400244 1084	1801 #AZOON 7501	1125 NWZYY			NO0244 1155		NOUZY	1182 1100244 1182					NOOZYK			_
				1087	11.25			1150								1,223			
	Creb Ar.		30	2	5,5		2	56		 25	36				55	56	53		
	INVESSE HELL DE							-						80,000					80,00
MIS	Odle Mati Recol	22	1113	8111	1124			1154		03/1									
QEQ	613	477	150	154	154		164	164		154	124			de de	154	154	154		7220
	Luis.	777	3/2	51%	975 575		05 5th 1EA	05 SX 1EA		 57.4	以	1			070	5/K	0.0		
	$\mathcal{E}_{\mathcal{Z}}$	0	20	B	3	-Z-	B	05	1	05	B	time		\$	05	8	8		10
	asyphon	RIL DLR	CKT CARD	VALVE	CKT CAKD	S FOR APR	PCB	748E	W YES SA	SWSTCH	CKTCARD	rs FOR		2018 10 DE	CKT CHRU	CETCARD	MANNE		Kylort
	Star No Obserption Pri Pures Oly	PRIOR 1 APRIL DIR OBLIGATIONS	1091 6000 THELSPOILPHISE CKT CARD OS STK 1EA	183 6001 1450000918641 VALVE OS SIK 1EN 1118	1119 6502 746550014200235 CKT CAKD CG ON 1EA	DLR OBJENTIONS FOR APRIL	7.45.60004832121 PCB	1150 600+ MSENDONPARISM TUBE	DIR COLTENTIONS FOR MAY	1152 6005 711.4940602428141 SWJTCH 05 STK	1181 6066 THS110001133412 CKT CARD OS STK	OIR COLLGATIONS FOR JUNG		CSG-5 2216152 JUL 81 OLR ERWY	1204 6007 744110018184121 (KT CARD OS DTO 1EH	1210 6003 MSS49011904136 CETCARD OF STK 11EA	1212 608 745670 001918641 VALVE OS DO 1EA	,	Budget OPMA Report   FOR
	Ocesocost		1041 6000	1009 7601	1119 6502	ı	1131 6203	1150 6004		1152 6005	9009 1811			1203	1204 6007	1210 5003	1212 6009		12/2



Date: 10 July 1981

# MEMORANDUM

From: Supply Officer, uss Guitareo To: Stock Control Officer, USS DIXON (AS-37)
Subj: Optar Log/Report 21 Balance Sheet
Ref: DIXONINST 7042.1D
1. Report 21 for period ending 30 JUNE 1981
2. OPTAR ROV TAV REIMB
3. Report 21 cut-off document no. $\frac{1173}{1167} - \frac{2899}{6207} \dots \text{SEE}$ 4. Optar Log current document no. $\frac{1187}{1188} - \frac{2996}{620218} \dots \text{SEE}$
1188 - W218 DLR 5. Name (Print) ENS SPURSEON Phone 225-2728
***************
6. Report 21 Cl. Bal Gross Adj. Obl(+)\$ 324,565.42  MVO = 14,060.16 MISSING: SEE = 14,320.79  PM = 368.72 DLR = 22,664.00  7. Requisitions not Appearing on Computer(+)\$ 51,353.67  (page 2, encl. (2), as of current doc. no.)
8. Total Computer Challenges(-)\$ 4,726.71 (page 3, encl. (2))
9. Corrected Computer Total Obligations(=)\$ 371,132.38 (Total of lines 6 & 7 less line 8)  S&E: 232,950 01
10. Optar Log Total Obligations DLR = 137.963.50s 370,913.51 (w/adjustments as of current doc. no.)
11. Difference between line 9 and line 10s218.87_
DLR: 201,000.00  12. Total Allocations. SEE: 280,000.00
13. Optar Log Current Available Balance\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

ENCLOSURE (3)

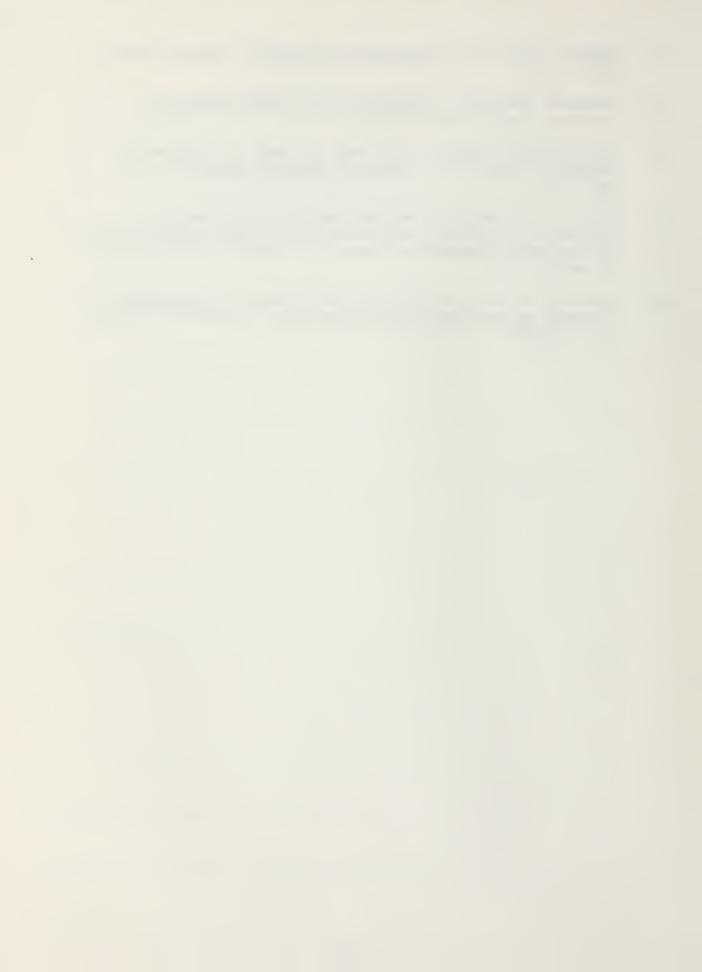


## LIST OF REFERENCES

- Carlucci, Frank C., "Focusing on Fraud and Waste," Armed Forces Comptroller, Winter 1982.
- Hopwood, Anthony, <u>Accounting and Human Behavior</u>, Chapter 5, Prentice Hall, Inc., 1974.
- 3. Shipboard Uniform Automated Data Processing System--207 (SUADPS-207) Support Procedures, NAVSUP P-522.
- 4. Shipboard Uniform Automated Data Processing System-- 207 Executive Handbook, NAVSUP P-464.
- 5. Navy Comptroller Manual, NAVSO P-1000.
- 6. Financial Management of Resources (Operating Forces)
  Operating Procedures, NAVSO P-3013.
- 7. Shipboard Uniform Automated Data Processing System Real Time Functional Description, dtd 31 December 1979.
- 8. Automated Data Systems Development Plan for the Shipboard Uniform Automated Data Processing System--Real Time (SUADPS-RT), dtd l October 1979.
- 9. COMSUBPAC INSTRUCTION 7330.26, Operating Forces Financial Management Procedures, dtd 31 March 1980.
- 10. Deardon, John, "MIS is a Mirage," <u>Harvard Business Review</u>, Jan/Feb 1972.
- 11. Mader, Chris, <u>Information Systems--Technology</u>, <u>Economics</u>, <u>Applications</u>, <u>Management</u>, <u>Science Research Associates</u>, <u>Inc.</u>, 1979.
- 12. Dock, V. Thomas, (ed), MIS, a Managerial Perspective, Science Research Associates, Inc., 1977.
- 13. Office of Naval Research Contract 0014-79-C-0872, U.S. Navy Financial Accounting and Reporting Improvement Concepts by Arther Anderson & Co., 29 Feb. 1980.
- 14. Ackoff, Russel, Control, A Concept of Corporate Planning, Wiley-Interscience, 1970.
- 15. Anthony, Robert, Planning and Control System: A Framework for Analysis, Harvard Business School, 1965.



- 16. Newman, William, Constructive Control, Prentice Hall, Inc., 1975.
- 17. Hopwood, Anthony, Accounting and Human Behavior, Prentice Hall, Inc., 1974.
- 18. Herzlinger, Regina, "Why Data Systems in Nonprofit Organizations Fail," Harvard Business Review, Jan/Feb 1977.
- 19. Naval Audit Service Western Region Audit Report F00047 on Operation and Maintenance Navy Appropriation of Commander Submarine Force U.S. Pacific Fleet, dtd 12 April 1978.
- 20. Anthony, Robert, and Herzlinger, Regina, Management Control in Non-Profit Organizations, Richard E. Irwin, Inc., 1980.



# INITIAL DISTRIBUTION LIST

		No.	Copies
1.	Defense Technical Information Center Cameron Station Alexandria, Virginia 22314		2
2.	Library, Code 0142 Naval Postgraduate School Monterey, California 93940		2
3.	Commander Submarine Force United States Pacific Fleet Pearl Harbor, Hawaii 96860		1
4.	Commander Peter Blondin, SC, USN, Code 54Zf Department of Administrative Sciences Naval Postgraduate School Monterey, California 93940		1
5.	Associate Professor Shu S. Liao, Code 54Lc Department of Administrative Sciences Naval Postgraduate School Monterey, California 93940		1
6.	LCDR R.A. Worley, SC, USN 7303 Snowden Ct Springfield, VA 22150		1







202306

rley
A review of shipboard oard uniform automated data processing systems
(SUADPS) as a financial cial

202306

(SUADPS) as a financial cial information and control trol system for OPTAR funds. 1ds.

6 HAY 87 33884 14

Thesis

c.1

Thesis

c.1

W87533 Worley

W87533 Worley

A review of shipboard uniform automated Lata processing systems (SUADPS) as a financial information and control system for OPTAR funds.

thesW87533 A review of Shipboard Uniform Automated

> 3 2768 001 90639 9 DUDLEY KNOX LIBRARY